

Preliminary

**Health Indicators and Risk Estimates by
Community Health Assessment Geographic Area
&
Local Health Departments**

**Michigan Behavioral Risk Factor Survey
2005**

Selected Tables

Chronic Disease Epidemiology Section
Bureau of Epidemiology
Michigan Department of Community Health

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Introduction

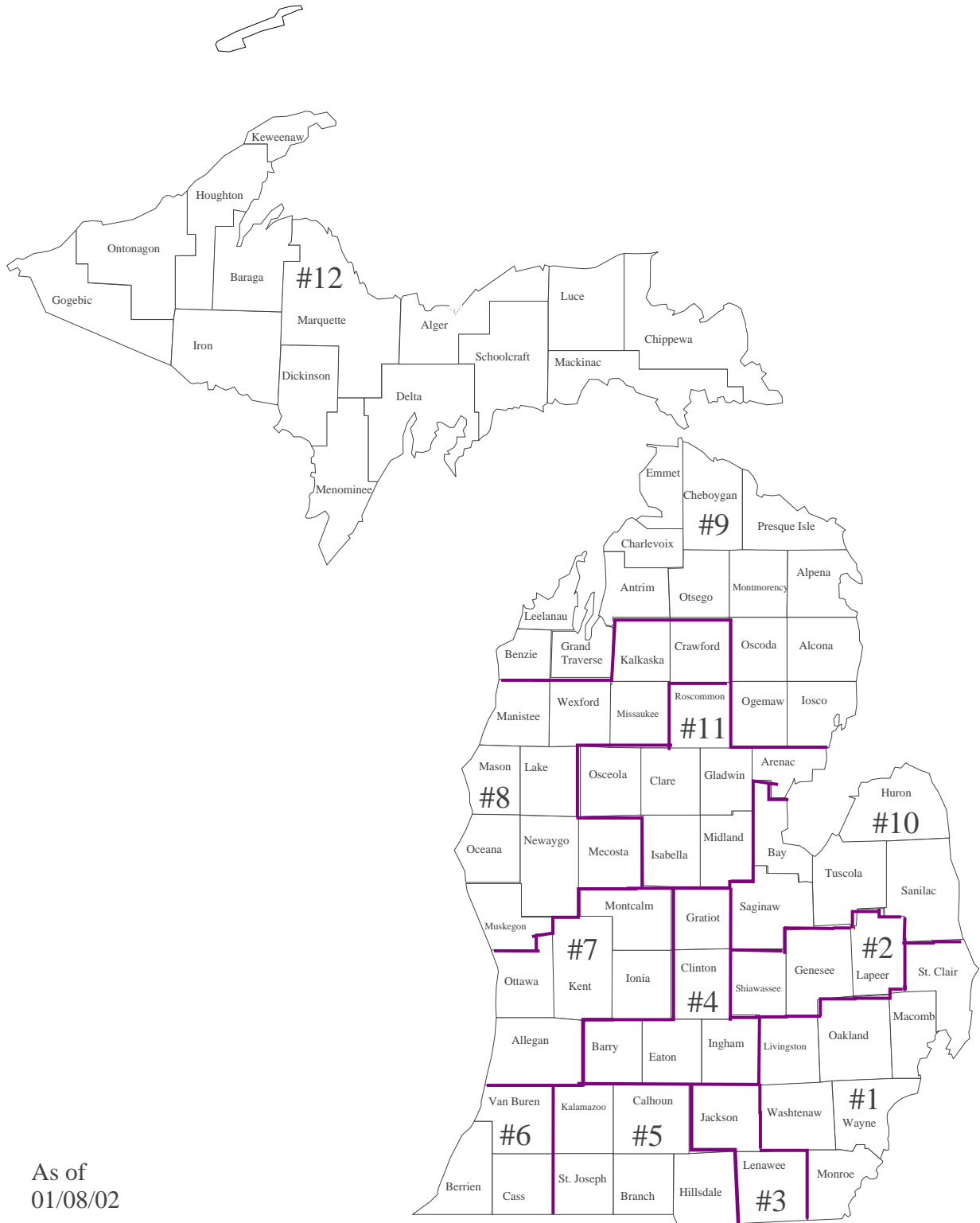
The Michigan Behavioral Risk Factor Survey (BRFS) is a statewide, random-digit dialed telephone survey of adult residents aged 18 years and older. State-specific, population-based prevalence estimates and confidence interval limits of health risk behaviors, preventive health practices, and chronic conditions are calculated yearly (see Annual Tables at <http://www.michigan.gov/brfs>), and region-specific and local health department-specific prevalence rates are usually computed using five years of combined data. In 2005, the Michigan BRFS was able to increase its sample size enough to provide a number of region-specific and local health department-specific estimates and are presented in the following tables. Estimates are reported for geographic subgroups with a sample size of at least 50 respondents.

The 2005 estimates have been weighted to adjust for the probabilities of selection, and a post-stratification weighting factor that adjusts for the distribution of Michigan adults by age, sex, and race/ethnicity at the state level. No additional weighting factors have been computed for the regional or local health department level.

These analyses were performed in SUDAAN, a statistical computing program that was designed for complex sample surveys. In tables of MI BRFS results from previous years, confidence intervals were presented as +/- half of the width of a symmetric confidence interval (1.96 times the standard error). In these 2005 MI BRFS tables, however, asymmetric confidence intervals are included as they are now calculated by SUDAAN (version 9.0).

If you have any questions about these data, please contact the Chronic Disease Epidemiology Section at 517-335-9080.

Community Health Assessment and Improvement Regions State of Michigan



As of
01/08/02

Local Health Departments State of Michigan

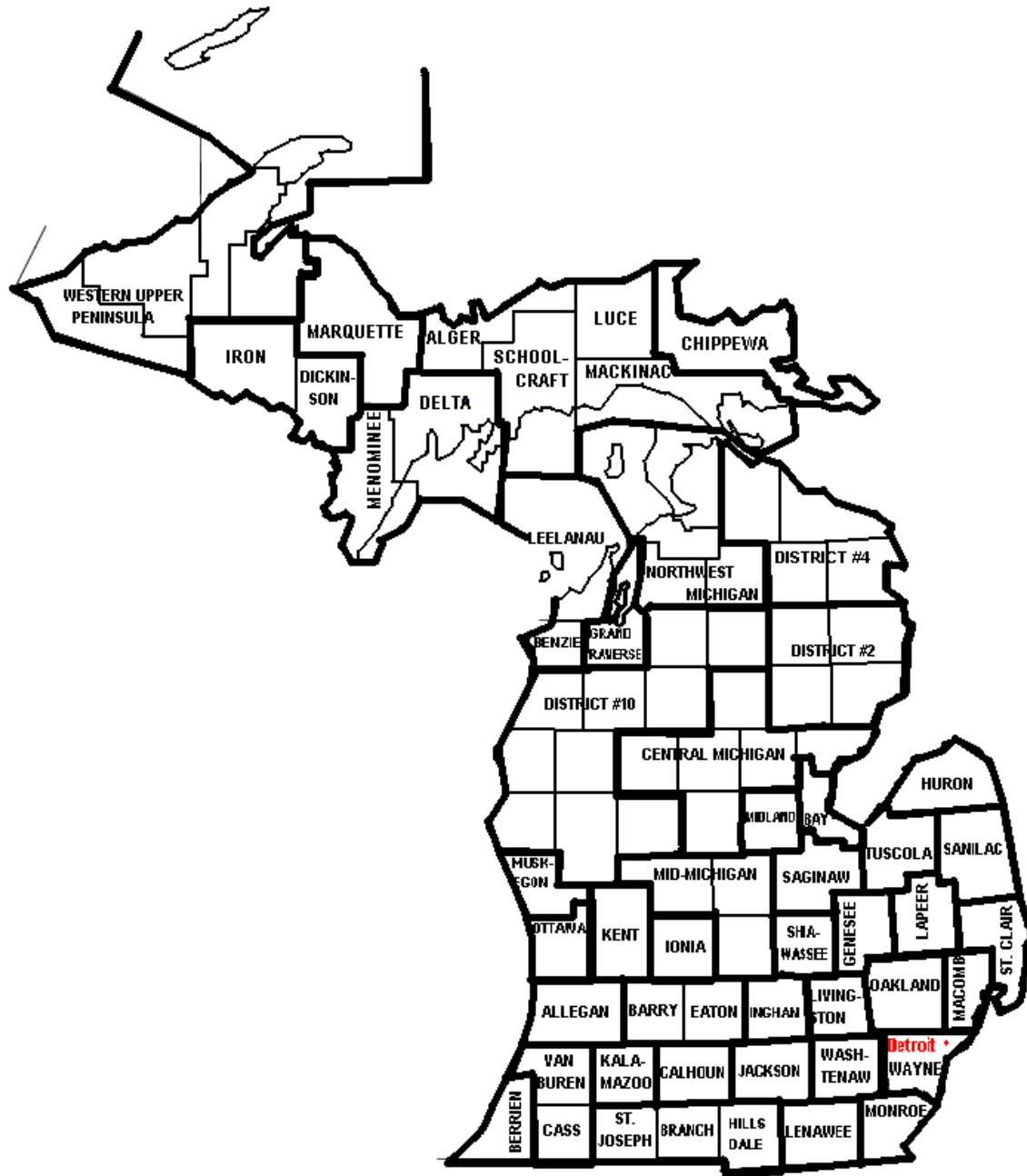


Table 1: Health Status 2005 Michigan BRFs			
Geographic Area	General Health, Fair or Poor^a		
	n	%	95% Confidence Interval
Michigan Total	12,102	15.2	(14.4 - 15.9)
Region 1	4,812	14.8	(13.7 – 16.0)
Livingston	190	7.8	(4.8 – 12.6)
Macomb	779	14.0	(11.5 – 16.9)
Monroe	176	15.5	(10.4 – 22.3)
Oakland	1,351	10.9	(9.1 – 13.1)
St. Clair	202	18.8	(13.2 – 26.1)
Washtenaw	425	8.3	(5.8 – 11.6)
City of Detroit	622	24.5	(20.7 – 28.6)
Wayne exc. Detroit	1,046	15.6	(13.3 – 18.4)
Region 2	743	14.9	(12.3 – 17.9)
Genesee	526	15.0	(12.0 – 18.6)
Lapeer	109	16.7	(10.2 – 26.0)
Shiawassee	108	12.8	(7.6 – 20.8)
Region 3	356	16.4	(12.5 – 21.2)
Jackson	219	19.3	(14.3 – 25.6)
Lenawee	137	11.7	(6.5 – 20.2)
Region 4	808	14.6	(12.1 – 17.4)
Barry-Eaton	268	14.5	(10.4 – 19.7)
Mid-Michigan ^b	264	16.9	(12.5 – 22.4)
Ingham	374	14.1	(10.8 – 18.2)
Region 5	711	16.1	(13.1 – 19.7)
Branch-Hillsdale-St. Joseph	196	20.2	(14.6 – 27.3)
Calhoun	203	17.1	(12.3 – 23.4)
Kalamazoo	312	13.2	(8.7 – 19.4)
Region 6	404	17.5	(13.6 – 22.1)
Van Buren-Cass	165	17.7	(11.9 – 25.5)
Berrien	239	17.3	(12.5 – 23.4)

Table 1 Cont'd			
Geographic Area	General Health, Fair or Poor^a		
	n	%	95% Confidence Interval
Michigan Total	12,102	15.2	(14.4 - 15.9)
Region 7	1,365	11.6	(9.9 - 13.6)
Allegan	147	17.0	(11.5 - 24.4)
Ionia	88	18.2	(10.7 - 29.1)
Kent	678	10.7	(8.4 - 13.6)
Mid-Michigan ^b	264	16.9	(12.5 - 22.4)
Ottawa	354	8.0	(5.3 - 11.7)
Region 8	642	19.2	(15.9 - 23.1)
District #10	408	19.3	(15.2 - 24.3)
Muskegon	234	19.1	(14.0 - 25.5)
Region 9	706	17.0	(14.0 - 20.4)
District #2	130	26.9	(18.9 - 36.9)
District #4	174	17.6	(11.6 - 26.0)
Northwest Michigan	212	16.3	(11.3 - 23.0)
Benzie-Leelanau	78	4.5	(1.7 - 11.3)
Grand Traverse	112	15.0	(9.4 - 22.9)
Region 10	603	16.8	(13.7 - 20.5)
Bay	127	22.1	(14.5 - 32.2)
Huron	44	----- ^c	
Saginaw	280	15.8	(11.6 - 21.2)
Sanilac	75	15.8	(8.9 - 26.4)
Tuscola	77	16.2	(9.2 - 27.0)
Region 11	425	16.3	(12.5 - 21.0)
Central Michigan	289	17.9	(13.1 - 24.2)
Midland	136	13.3	(8.1 - 21.0)
Region 12	527	15.1	(12.1 - 18.7)
Luce-Mackinac-Alger-Schoolcraft	66	16.0	(8.1 - 29.2)
Western Upper Peninsula	115	16.1	(10.4 - 24.2)
Delta-Menominee	116	8.8	(5.1 - 15.0)
Chippewa	52	14.9	(6.8 - 29.3)
Dickinson-Iron	78	24.2	(15.3 - 36.1)
Marquette	100	14.5	(8.6 - 23.3)

^a The proportion who reported that their health, in general, was either fair or poor.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 2: Poor Physical Health on at Least 14 Days in the Past Month 2005 Michigan BRFs			
Geographic Area	Poor Physical Health^a		
	n	%	95% Confidence Interval
Michigan Total	11,886	11.1	(10.4 - 11.7)
Region 1	4,727	11.1	(10.1 – 12.2)
Livingston	187	8.0	(4.9 – 12.7)
Macomb	764	10.6	(8.5 – 13.1)
Monroe	174	14.1	(9.4 – 20.5)
Oakland	1,324	9.3	(7.5 – 11.4)
St. Clair	193	12.3	(8.2 – 18.1)
Washtenaw	422	10.2	(7.3 – 14.0)
City of Detroit	608	14.6	(11.8 – 18.0)
Wayne exc. Detroit	1,036	11.5	(9.5 – 13.9)
Region 2	724	11.6	(9.3 – 14.3)
Genesee	512	12.2	(9.5 – 15.5)
Lapeer	108	10.8	(5.9 – 19.0)
Shiawassee	104	9.4	(5.0 – 17.1)
Region 3	349	14.3	(10.7 – 18.8)
Jackson	214	15.6	(11.3 – 21.2)
Lenawee	135	12.1	(6.6 – 21.0)
Region 4	795	9.6	(7.5 – 12.2)
Barry-Eaton	264	7.5	(4.9 – 11.2)
Mid-Michigan ^b	258	8.2	(5.2 – 12.6)
Ingham	370	11.5	(8.1 – 16.1)
Region 5	698	10.6	(8.1 – 13.8)
Branch-Hillsdale-St. Joseph	194	15.1	(8.1 – 16.1)
Calhoun	197	11.1	(6.7 – 17.8)
Kalamazoo	307	7.8	(4.8 – 12.5)
Region 6	396	8.8	(6.2 – 12.3)
Van Buren-Cass	163	7.7	(4.5 – 12.8)
Berrien	233	9.6	(6.1 – 14.7)

Table 2 Cont'd			
Geographic Area	Poor Physical Health^a		
	n	%	95% Confidence Interval
Michigan Total	11,886	11.1	(10.4 - 11.7)
Region 7	1,349	9.4	(7.7 – 11.4)
Allegan	146	14.5	(8.8 – 23.1)
Ionia	86	7.6	(3.6 – 15.2)
Kent	669	10.3	(7.8 – 13.5)
Mid-Michigan ^b	258	8.2	(5.2 – 12.6)
Ottawa	351	6.4	(4.3 – 9.4)
Region 8	623	15.1	(12.1 – 18.6)
District #10	394	15.9	(12.0 – 20.9)
Muskegon	229	13.7	(9.6 – 19.1)
Region 9	698	12.9	(10.4 – 15.9)
District #2	128	17.0	(11.4 – 24.5)
District #4	171	10.8	(6.5 – 17.4)
Northwest Michigan	211	16.3	(11.2 – 23.1)
Benzie-Leelanau	77	5.9	(2.1 – 15.5)
Grand Traverse	111	9.9	(5.8 – 16.4)
Region 10	586	10.7	(8.3 – 13.7)
Bay	125	15.7	(9.4 – 25.2)
Huron	43	----- ^c	
Saginaw	270	11.0	(7.6 – 15.5)
Sanilac	73	9.9	(5.0 – 18.8)
Tuscola	75	5.3	(2.5 – 10.9)
Region 11	422	10.3	(7.5 – 14.0)
Central Michigan	286	12.8	(9.0 – 18.0)
Midland	136	5.6	(3.0 – 10.5)
Region 12	519	10.8	(8.3 – 13.8)
Luce-Mackinac-Alger-Schoolcraft	66	7.6	(3.3 – 16.5)
Western Upper Peninsula	116	14.0	(8.5 – 22.2)
Delta-Menominee	113	9.6	(5.3 – 16.7)
Chippewa	51	4.4	(1.3 – 13.6)
Dickinson-Iron	75	14.3	(7.7 – 24.9)
Marquette	98	12.1	(7.0 – 20.1)

^a The proportion who reported 14 or more days of poor physical health, which includes physical illness and injury, during the past 30 days.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 3: Poor Mental Health on at Least 14 Days in the Past Month 2005 Michigan BRFs			
Geographic Area	Poor Mental Health^a		
	n	%	95% Confidence Interval
Michigan Total	11,941	10.8	(10.1 - 11.5)
Region 1	4,753	11.1	(10.1 – 12.3)
Livingston	188	6.6	(3.7 – 11.5)
Macomb	771	11.7	(9.3 – 14.6)
Monroe	174	17.2	(10.9 – 26.1)
Oakland	1,339	10.1	(8.1 – 12.5)
St. Clair	194	14.1	(9.5 – 20.5)
Washtenaw	421	7.0	(4.6 – 10.6)
City of Detroit	608	12.9	(10.0 – 16.5)
Wayne exc. Detroit	1,038	11.5	(9.3 – 14.0)
Region 2	735	10.1	(7.9 – 13.0)
Genesee	523	10.2	(7.6 – 13.5)
Lapeer	106	9.6	(4.9 – 17.7)
Shiawassee	106	10.4	(4.5 – 22.2)
Region 3	355	10.9	(7.4 – 15.7)
Jackson	219	9.8	(6.3 – 15.0)
Lenawee	136	12.6	(6.5 – 23.1)
Region 4	795	9.6	(7.4 – 12.3)
Barry-Eaton	264	7.4	(4.7 – 11.4)
Mid-Michigan ^b	259	11.3	(7.3 – 17.0)
Ingham	367	10.3	(7.0 – 14.8)
Region 5	701	11.9	(9.4 – 14.9)
Branch-Hillsdale-St. Joseph	194	14.8	(9.6 – 22.2)
Calhoun	200	16.1	(11.1 – 22.9)
Kalamazoo	307	7.5	(4.9 – 11.2)
Region 6	396	7.6	(5.1 – 11.3)
Van Buren-Cass	164	7.5	(4.1 – 13.2)
Berrien	232	7.7	(4.4 – 13.1)

Table 3 Cont'd			
Geographic Area	Poor Mental Health^a		
	n	%	95% Confidence Interval
Michigan Total	11,941	10.8	(10.1 - 11.5)
Region 7	1,351	10.4	(8.5 – 12.7)
Allegan	146	9.9	(5.4 – 17.5)
Ionia	86	15.0	(7.9 – 26.7)
Kent	672	11.4	(8.6 – 14.9)
Mid-Michigan ^b	259	11.3	(7.3 – 17.0)
Ottawa	352	7.6	(4.9 – 11.5)
Region 8	626	12.9	(10.0 – 16.4)
District #10	400	12.5	(9.0 – 17.2)
Muskegon	226	13.5	(9.2 – 19.5)
Region 9	699	10.1	(7.8 – 12.9)
District #2	128	14.1	(8.8 – 21.8)
District #4	170	10.0	(5.6 – 17.2)
Northwest Michigan	210	7.7	(4.7 – 12.3)
Benzie-Leelanau	78	9.9	(4.2 – 21.5)
Grand Traverse	113	10.5	(5.5 – 19.0)
Region 10	593	11.7	(8.8 – 15.5)
Bay	124	14.1	(7.0 – 26.4)
Huron	42	----- ^c	
Saginaw	275	14.0	(9.6 – 20.0)
Sanilac	74	10.1	(5.2 – 18.7)
Tuscola	78	5.2	(2.2 – 11.9)
Region 11	419	12.6	(9.0 – 17.4)
Central Michigan	287	14.0	(9.4 – 20.3)
Midland	132	10.0	(5.2 – 18.4)
Region 12	518	7.9	(5.6 – 11.1)
Luce-Mackinac-Alger-Schoolcraft	66	10.3	(4.3 – 22.9)
Western Upper Peninsula	115	9.1	(5.0 – 15.9)
Delta-Menominee	114	6.9	(2.8 – 16.2)
Chippewa	50	10.0	(3.3 – 26.4)
Dickinson-Iron	75	5.0	(1.7 – 14.1)
Marquette	98	6.9	(3.1 – 14.7)

^a The proportion who reported 14 or more days of mental health that was not good, which includes stress, depression, and problems with emotions, during the past 30 days.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 4: Activity Limitation on at Least 14 Days in the Past Month 2005 Michigan BRFS			
Geographic Area	Activity Limitation^a		
	n	%	95% Confidence Interval
Michigan Total	12,006	7.3	(6.8 – 7.9)
Region 1	4,772	7.8	(6.9 – 8.8)
Livingston	188	6.5	(3.6 – 11.5)
Macomb	775	6.8	(5.2 – 8.8)
Monroe	174	11.1	(6.7 – 17.8)
Oakland	1,345	6.2	(4.7 – 8.2)
St. Clair	199	8.2	(4.8 – 13.8)
Washtenaw	421	7.1	(4.6 – 10.6)
City of Detroit	615	11.8	(9.1 – 15.1)
Wayne exc. Detroit	1,034	7.5	(5.9 – 9.6)
Region 2	734	6.6	(5.0 – 8.7)
Genesee	522	7.1	(5.1 – 9.7)
Lapeer	107	8.2	(4.1 – 15.8)
Shiawassee	105	3.0	(1.2 – 7.2)
Region 3	353	5.3	(3.4 – 7.9)
Jackson	216	6.2	(3.7 – 10.1)
Lenawee	137	3.8	(1.7 – 7.9)
Region 4	799	5.3	(3.8 – 7.3)
Barry-Eaton	266	4.9	(2.9 – 8.2)
Mid-Michigan ^b	260	6.1	(3.2 – 11.3)
Ingham	371	5.9	(3.8 – 9.1)
Region 5	706	5.2	(3.9 – 7.0)
Branch-Hillsdale-St. Joseph	196	6.7	(4.1 – 10.9)
Calhoun	201	6.9	(4.2 – 11.2)
Kalamazoo	309	3.3	(1.8 – 5.9)
Region 6	405	4.7	(3.0 – 7.2)
Van Buren-Cass	167	5.2	(2.8 – 9.6)
Berrien	238	4.3	(2.4 – 7.8)

Table 4 Cont'd			
Geographic Area	Activity Limitation^a		
	n	%	95% Confidence Interval
Michigan Total	12,006	7.3	(6.8 – 7.9)
Region 7	1,359	7.4	(5.8 – 9.3)
Allegan	146	8.5	(4.6 – 15.1)
Ionia	87	11.5	(5.8 – 21.3)
Kent	674	8.1	(5.8 – 11.3)
Mid-Michigan ^b	260	6.1	(3.2 – 11.3)
Ottawa	354	4.1	(2.3 – 7.4)
Region 8	634	9.2	(6.8 – 12.2)
District #10	405	10.0	(6.9 – 14.3)
Muskegon	229	7.8	(4.8 – 12.5)
Region 9	701	8.3	(6.2 – 11.1)
District #2	126	9.7	(5.5 – 16.5)
District #4	171	6.5	(3.5 – 11.8)
Northwest Michigan	212	7.9	(4.3 – 14.2)
Benzie-Leelanau	78	12.7	(5.8 – 25.5)
Grand Traverse	114	7.1	(3.3 – 14.5)
Region 10	597	8.1	(6.0 – 10.9)
Bay	126	9.5	(5.2 – 16.8)
Huron	44	----- ^c	
Saginaw	274	7.9	(5.0 – 12.2)
Sanilac	75	11.6	(5.3 – 23.2)
Tuscola	78	3.6	(1.1 – 11.3)
Region 11	424	9.5	(6.6 – 13.6)
Central Michigan	289	11.6	(7.6 – 17.4)
Midland	135	5.6	(2.8 – 10.9)
Region 12	522	5.8	(4.0 – 8.3)
Luce-Mackinac-Alger-Schoolcraft	66	6.3	(1.9 – 19.1)
Western Upper Peninsula	115	6.4	(3.1 – 12.5)
Delta-Menominee	115	6.8	(3.5 – 13.0)
Chippewa	52	1.2	(0.2 – 8.0)
Dickinson-Iron	76	7.0	(2.9 – 16.0)
Marquette	98	5.5	(2.3 – 12.4)

^a The proportion who reported 14 or more days in the past 30 days in which either poor physical health or poor mental health kept them from doing their usual activities, such as self-care, work, and recreation.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 5: No Health Care Coverage Among Those Aged 18-64 Years 2005 Michigan BRFs			
Geographic Area	No Health Care Coverage^a		
	n	%	95% Confidence Interval
Michigan Total	8,957	14.5	(13.6 – 15.5)
Region 1	3,610	12.4	(11.1 – 13.9)
Livingston	148	7.5	(3.8 – 14.3)
Macomb	553	12.3	(9.3 – 16.1)
Monroe	137	9.7	(5.3 – 17.0)
Oakland	1,025	10.1	(7.8 – 12.9)
St. Clair	159	17.7	(11.4 – 26.5)
Washtenaw	334	4.9	(2.9 – 8.1)
City of Detroit	459	22.2	(17.8 – 27.2)
Wayne exc. Detroit	781	11.5	(8.9 – 14.7)
Region 2	559	12.6	(9.4 – 16.6)
Genesee	391	12.3	(8.7 – 17.0)
Lapeer	85	18.5	(9.2 – 33.5)
Shiawassee	83	8.3	(3.1 – 20.3)
Region 3	259	17.8	(12.5 – 24.7)
Jackson	167	15.5	(9.7 – 24.0)
Lenawee	92	21.7	(12.6 – 34.9)
Region 4	607	14.0	(10.6 – 18.4)
Barry-Eaton	193	14.3	(8.7 – 22.5)
Mid-Michigan ^b	203	13.4	(8.4 – 20.6)
Ingham	285	15.0	(10.0 – 21.9)
Region 5	500	15.9	(12.1 – 20.6)
Branch-Hillsdale-St. Joseph	140	17.7	(11.1 – 26.9)
Calhoun	133	22.6	(14.2 – 34.0)
Kalamazoo	227	10.9	(6.8 – 17.0)
Region 6	313	21.1	(15.5 – 28.1)
Van Buren-Cass	126	19.8	(11.4 – 32.3)
Berrien	187	22.0	(15.1 – 30.9)

Table 5 Cont'd			
Geographic Area	No Health Care Coverage^a		
	n	%	95% Confidence Interval
Michigan Total	8,957	14.5	(13.6 – 15.5)
Region 7	1,030	13.3	(10.9 – 16.2)
Allegan	102	16.8	(9.5 – 28.1)
Ionia	61	7.9	(2.7 – 21.1)
Kent	521	11.9	(8.6 – 16.2)
Mid-Michigan ^b	203	13.4	(8.4 – 20.6)
Ottawa	272	15.1	(10.6 – 21.1)
Region 8	464	18.7	(14.5 – 23.7)
District #10	292	20.9	(15.4 – 27.6)
Muskegon	172	15.4	(9.8 – 23.3)
Region 9	488	22.0	(17.5 – 27.1)
District #2	87	26.1	(16.7 – 38.4)
District #4	117	24.0	(15.1 – 35.9)
Northwest Michigan	147	20.3	(13.0 – 30.4)
Benzie-Leelanau	55	21.3	(9.6 – 40.7)
Grand Traverse	82	18.4	(10.3 – 30.8)
Region 10	447	15.5	(11.4 – 20.8)
Bay	95	17.4	(8.4 – 32.5)
Huron	30	----- ^c	
Saginaw	204	15.6	(10.0 – 23.6)
Sanilac	57	11.1	(4.9 – 23.2)
Tuscola	61	8.9	(3.0 – 23.7)
Region 11	315	16.9	(12.2 – 22.8)
Central Michigan	200	19.8	(13.4 – 28.2)
Midland	115	12.1	(6.8 – 20.5)
Region 12	365	17.0	(12.6 – 22.6)
Luce-Mackinac-Alger-Schoolcraft	52	20.2	(10.1 – 36.4)
Western Upper Peninsula	87	22.6	(12.8 – 36.7)
Delta-Menominee	80	15.9	(7.7 – 29.9)
Chippewa	36	----- ^c	
Dickinson-Iron	43	----- ^c	
Marquette	67	18.0	(10.0 – 30.4)
^a Among those aged 18-64 years, the proportion who reported having no health care coverage, including health insurance, prepaid plans such as HMOs, or government plans, such as Medicare. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate. ^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.			

Table 6: Health Care Access 2005 Michigan BRFS						
Geographic Area	No Personal Health Care Provider^a			No Health Care Access During Past 12 Months Due to Cost^b		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	12,111	14.4	(13.6 – 15.3)	12,112	12.7	(12.0 – 13.5)
Region 1	4,819	15.1	(13.7 – 16.5)	4,814	12.5	(11.4 – 13.8)
Livingston	189	12.5	(7.6 – 19.9)	190	6.7	(3.5 – 12.5)
Macomb	780	13.6	(10.7 – 17.1)	782	10.7	(8.2 – 13.8)
Monroe	175	13.7	(8.6 – 21.2)	176	12.9	(8.0 – 20.2)
Oakland	1,353	13.3	(11.0 – 16.0)	1,351	9.9	(8.0 – 12.1)
St. Clair	202	16.7	(10.4 – 25.9)	202	17.9	(12.2 – 25.4)
Washtenaw	426	15.1	(11.1 – 20.2)	426	10.1	(7.0 – 14.4)
City of Detroit	623	22.6	(18.6 – 27.2)	617	22.4	(18.6 – 26.8)
Wayne exc. Detroit	1,050	12.8	(10.4 – 15.8)	1,049	10.5	(8.4 – 13.1)
Region 2	744	12.4	(9.5 – 16.1)	744	13.6	(10.8 – 17.0)
Genesee	527	13.7	(10.1 – 18.4)	527	14.6	(11.2 – 18.9)
Lapeer	109	12.2	(6.2 – 22.4)	109	14.0	(7.7 – 24.1)
Shiawassee	108	6.6	(2.2 – 18.1)	108	8.5	(4.1 – 17.1)
Region 3	356	11.3	(7.6 – 16.6)	357	11.6	(8.2 – 16.1)
Jackson	219	13.2	(8.0 – 21.0)	220	11.3	(7.3 – 17.1)
Lenawee	137	8.2	(4.3 – 14.9)	137	12.0	(6.7 – 20.6)
Region 4	807	15.1	(11.9 – 18.9)	808	10.4	(8.0 – 13.4)
Barry-Eaton	268	10.3	(6.4 – 16.3)	267	12.1	(8.2 – 17.5)
Mid-Michigan ^c	264	11.6	(7.5 – 17.6)	264	9.5	(5.8 – 15.0)
Ingham	373	20.6	(15.3 – 27.2)	375	10.7	(7.2 – 15.5)
Region 5	710	16.3	(12.9 – 20.3)	711	14.9	(11.7 – 18.7)
Branch-Hillsdale-St. Joseph	196	18.7	(12.1 – 27.7)	197	14.8	(9.7 – 21.9)
Calhoun	202	14.5	(9.1 – 22.4)	202	19.5	(13.0 – 28.3)
Kalamazoo	312	16.0	(11.3 – 22.1)	312	12.0	(8.1 – 17.5)
Region 6	405	16.2	(12.0 – 21.5)	406	16.9	(12.4 – 22.6)
Van Buren-Cass	166	14.3	(8.3 – 23.5)	167	16.4	(10.1 – 25.5)
Berrien	239	17.5	(12.2 – 24.4)	239	17.2	(11.5 – 25.0)

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Table 6 Cont'd

Geographic Area	No Personal Health Care Provider ^a			No Health Care Access During Past 12 Months Due to Cost ^b		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	12,111	14.4	(13.6 – 15.3)	12,112	12.7	(12.0 – 13.5)
Region 7	1,363	13.4	(11.0 – 16.2)	1,365	10.7	(8.9 – 12.9)
Allegan	147	14.0	(8.0 – 23.4)	147	11.6	(6.9 – 18.8)
Ionia	88	13.7	(6.7 – 26.0)	88	13.3	(6.8 – 24.4)
Kent	676	13.2	(10.0 – 17.3)	678	10.9	(8.2 – 14.3)
Mid-Michigan ^c	264	11.6	(7.5 – 17.6)	264	9.5	(5.8 – 15.0)
Ottawa	354	13.0	(8.6 – 19.2)	354	8.7	(5.8 – 12.7)
Region 8	642	11.2	(8.3 – 14.9)	642	14.5	(11.3 – 18.5)
District #10	408	11.6	(8.2 – 16.4)	408	14.3	(10.3 – 19.5)
Muskegon	234	10.5	(6.1 – 17.4)	234	14.9	(9.8 – 21.9)
Region 9	708	16.7	(13.4 – 20.6)	708	13.3	(10.5 – 16.8)
District #2	130	9.6	(5.5 – 16.4)	131	19.4	(11.7 – 30.3)
District #4	174	17.3	(11.4 – 25.3)	173	11.4	(6.5 – 19.3)
Northwest Michigan	213	17.5	(11.6 – 25.6)	213	12.5	(8.4 – 18.1)
Benzie-Leelanau	78	12.8	(5.1 – 28.3)	78	12.2	(5.1 – 26.4)
Grand Traverse	113	25.1	(16.4 – 36.5)	113	11.6	(6.1 – 20.8)
Region 10	603	9.9	(7.0 – 14.0)	602	13.6	(10.5 – 17.4)
Bay	127	18.8	(10.1 – 32.4)	127	13.4	(7.1 – 23.9)
Huron	44	----- ^d		43	----- ^d	
Saginaw	280	7.6	(4.3 – 13.0)	279	12.9	(8.8 – 18.5)
Sanilac	75	9.5	(4.2 – 20.1)	75	16.3	(8.5 – 28.8)
Tuscola	77	6.2	(2.7 – 13.6)	78	14.0	(6.6 – 27.3)
Region 11	428	18.6	(13.9 – 24.4)	427	14.3	(10.8 – 18.7)
Central Michigan	291	22.7	(16.4 – 30.4)	291	12.9	(9.2 – 17.9)
Midland	137	11.0	(5.9 – 19.8)	136	17.0	(10.5 – 26.2)
Region 12	526	13.8	(10.3 – 18.2)	528	11.3	(8.4 – 15.0)
Luce-Mackinac-Alger-Schoolcraft	66	13.3	(6.1 – 26.6)	66	19.0	(10.1 – 32.8)
Western Upper Peninsula	116	20.4	(12.0 – 32.4)	116	13.4	(7.6 – 22.5)
Delta-Menominee	115	13.3	(7.3 – 22.9)	116	9.8	(4.7 – 19.2)
Chippewa	52	21.9	(9.7 – 42.3)	52	7.4	(1.9 – 25.0)
Dickinson-Iron	78	6.6	(2.8 – 14.7)	78	7.5	(3.0 – 17.5)
Marquette	99	6.8	(3.0 – 14.6)	100	10.3	(5.5 – 18.4)

^a The proportion who reported that they did not have anyone that they thought of as their personal doctor or health care provider.

^b The proportion who reported that in the past 12 months that there was a time when they could not see a doctor when they needed to due to the cost.

^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^d Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 7: No Routine Checkup in Past Year 2005 Michigan BRFS			
Geographic Area	Had No Routine Checkup in Past Year^a		
	n	%	95% Confidence Interval
Michigan Total	11,983	29.6	(28.5 – 30.6)
Region 1	4,767	29.0	(27.4 – 30.7)
Livingston	186	32.3	(25.0 – 40.6)
Macomb	772	29.1	(25.2 – 33.2)
Monroe	173	36.2	(28.0 – 45.4)
Oakland	1,341	28.7	(25.7 – 31.9)
St. Clair	201	34.5	(26.6 – 43.4)
Washtenaw	422	31.9	(26.7 – 37.7)
City of Detroit	615	25.0	(20.9 – 29.6)
Wayne exc. Detroit	1,037	28.6	(25.2 – 32.2)
Region 2	739	27.4	(23.5 – 31.8)
Genesee	523	25.4	(20.8 – 30.5)
Lapeer	108	32.6	(23.0 – 44.0)
Shiawassee	108	32.2	(21.8 – 44.8)
Region 3	353	31.1	(25.5 – 37.2)
Jackson	217	29.0	(22.2 – 36.8)
Lenawee	136	34.4	(25.4 – 44.8)
Region 4	796	32.6	(28.6 – 36.8)
Barry-Eaton	261	33.6	(26.9 – 41.0)
Mid-Michigan ^b	260	34.9	(28.1 – 42.4)
Ingham	371	31.3	(25.5 – 37.8)
Region 5	705	31.7	(27.5 – 36.3)
Branch-Hillsdale-St. Joseph	191	37.4	(29.2 – 46.3)
Calhoun	202	31.8	(24.0 – 40.8)
Kalamazoo	312	28.5	(22.6 – 35.2)
Region 6	398	31.7	(26.2 – 37.8)
Van Buren-Cass	163	34.4	(25.6 – 44.3)
Berrien	235	30.0	(23.1 – 37.8)

Table 7 Cont'd			
Geographic Area	Had No Routine Checkup in Past Year^a		
	n	%	95% Confidence Interval
Michigan Total	11,983	29.6	(28.5 – 30.6)
Region 7	1,347	28.0	(25.1 – 31.0)
Allegan	144	28.0	(20.0 – 37.6)
Ionia	86	28.1	(18.3 – 40.4)
Kent	670	25.1	(21.2 – 29.3)
Mid-Michigan ^b	260	34.9	(28.1 – 42.4)
Ottawa	351	31.5	(25.8 – 37.7)
Region 8	635	30.7	(26.4 – 35.3)
District #10	404	32.3	(27.1 – 38.1)
Muskegon	231	28.0	(21.1 – 36.2)
Region 9	705	28.8	(24.7 – 33.3)
District #2	131	37.4	(27.3 – 48.7)
District #4	173	29.4	(21.5 – 38.8)
Northwest Michigan	211	21.3	(15.1 – 29.0)
Benzie-Leelanau	78	28.1	(17.2 – 42.3)
Grand Traverse	112	33.1	(23.3 – 44.6)
Region 10	595	29.0	(24.6 – 33.9)
Bay	124	20.9	(13.5 – 30.9)
Huron	43	----- ^c	
Saginaw	276	30.2	(23.7 – 37.5)
Sanilac	75	27.4	(17.0 – 41.1)
Tuscola	77	34.2	(22.4 – 48.3)
Region 11	420	34.7	(29.3 – 40.6)
Central Michigan	284	34.9	(28.3 – 42.1)
Midland	136	34.4	(25.4 – 44.7)
Region 12	523	28.3	(23.8 – 33.2)
Luce-Mackinac-Alger-Schoolcraft	66	27.8	(16.3 – 43.3)
Western Upper Peninsula	113	35.3	(25.5 – 46.4)
Delta-Menominee	116	28.2	(19.0 – 39.7)
Chippewa	52	31.4	(18.0 – 49.0)
Dickinson-Iron	77	18.8	(10.9 – 30.4)
Marquette	99	25.3	(16.7 – 36.5)

^a The proportion who reported that they did not have a routine checkup in the past year.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 8: Weight Status 2005 Michigan BRFs							
Geographic Area	Sample Size	Obese^a		Overweight^b		Not Overweight or Obese^c	
	n	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	11,573	26.5	(25.5 - 27.4)	36.6	(35.5 - 37.7)	37.0	(35.9 - 38.1)
Region 1	4,590	25.9	(24.4 – 27.5)	35.5	(33.9 – 37.2)	38.6	(36.9 – 40.4)
Livingston	177	26.0	(19.5 – 33.7)	37.1	(29.4 – 45.5)	37.0	(29.3 – 45.3)
Macomb	738	23.8	(20.2 – 27.7)	41.9	(37.6 – 46.2)	34.4	(30.4 – 38.6)
Monroe	168	27.9	(20.8 – 36.3)	38.4	(30.2 – 47.2)	33.8	(25.2 – 43.6)
Oakland	1,293	20.7	(18.1 – 23.5)	37.3	(34.1 – 40.7)	42.0	(38.7 – 45.4)
St. Clair	192	27.3	(20.5 – 35.3)	33.9	(26.5 – 42.2)	38.8	(30.2 – 48.1)
Washtenaw	414	22.7	(18.3 – 27.9)	33.7	(28.5 – 39.3)	43.7	(38.0 – 49.5)
City of Detroit	592	38.0	(33.2 – 43.0)	29.2	(25.1 – 33.7)	32.8	(28.3 – 37.7)
Wayne exc. Detroit	996	25.6	(22.5 – 29.1)	34.3	(30.8 – 37.9)	40.1	(36.4 – 43.9)
Region 2	710	27.8	(24.2 – 31.8)	37.1	(32.9 – 41.6)	35.0	(30.8 – 39.5)
Genesee	499	28.3	(24.0 – 33.1)	38.2	(33.1 – 43.5)	33.5	(28.5 – 38.8)
Lapeer	106	31.7	(22.2 – 43.0)	36.0	(26.3 – 47.1)	32.3	(22.9 – 43.5)
Shiawassee	105	22.0	(14.2 – 32.5)	33.5	(23.3 – 45.5)	44.5	(32.9 – 56.7)
Region 3	339	29.8	(24.4 – 35.9)	39.6	(33.7 – 46.0)	30.5	(25.2 – 36.5)
Jackson	203	30.5	(23.6 – 38.4)	40.0	(32.4 – 48.2)	29.5	(23.0 – 36.9)
Lenawee	136	28.9	(20.7 – 38.7)	39.0	(29.8 – 49.1)	32.1	(23.5 – 42.1)
Region 4	773	26.8	(23.3 – 30.7)	36.6	(32.5 – 40.8)	36.7	(32.6 – 40.9)
Barry-Eaton	255	24.4	(18.8 – 31.0)	39.0	(31.9 – 46.6)	36.7	(29.7 – 44.2)
Mid-Michigan ^d	255	33.4	(37.0 – 40.5)	30.4	(24.2 – 37.3)	36.3	(29.8 – 43.3)
Ingham	360	26.6	(21.5 – 32.5)	37.9	(32.0 – 44.2)	35.5	(29.6 – 41.9)
Region 5	678	24.5	(20.8 – 28.5)	37.7	(33.3 – 42.2)	37.9	(33.4 – 42.5)
Branch-Hillsdale-St. Joseph	186	26.6	(20.1 – 34.4)	33.2	(25.7 – 41.5)	40.2	(31.8 – 49.3)
Calhoun	196	23.1	(16.9 – 30.6)	41.6	(33.4 – 50.3)	35.3	(27.5 – 44.1)
Kalamazoo	296	24.2	(18.7 – 30.6)	37.7	(31.2 – 44.6)	38.2	(31.6 – 45.3)
Region 6	396	22.9	(18.5 – 28.1)	39.3	(33.6 – 45.4)	37.8	(31.9 – 44.0)
Van Buren-Cass	163	23.9	(17.2 – 32.2)	31.1	(23.3 – 40.2)	45.0	(35.6 – 54.9)
Berrien	233	22.3	(16.6 – 29.2)	44.8	(37.1 – 52.7)	32.9	(25.8 – 40.9)
Region 7	1,297	24.4	(21.8 – 27.2)	38.3	(35.2 – 41.6)	37.3	(34.1 – 40.5)
Allegan	141	20.4	(13.9 – 29.0)	41.1	(31.5 – 51.3)	38.6	(29.6 – 48.4)
Ionia	83	34.2	(23.7 – 46.5)	29.7	(20.4 – 41.1)	36.1	(24.8 – 49.2)
Kent	636	22.8	(19.2 – 26.8)	38.7	(34.1 – 43.4)	38.6	(34.0 – 43.4)
Mid-Michigan ^d	255	33.4	(37.0 – 40.5)	30.4	(24.2 – 37.3)	36.3	(29.8 – 43.3)
Ottawa	340	23.6	(18.9 – 29.0)	40.3	(34.1 – 46.7)	36.2	(30.3 – 42.5)

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Table 8 Cont'd							
Geographic Area	Sample Size	Obese^a		Overweight^b		Not Overweight or Obese^c	
	n	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	11,573	26.5	(25.5 - 27.4)	36.6	(35.5 - 37.7)	37.0	(35.9 - 38.1)
Region 8	620	27.9	(24.0 - 32.2)	35.9	(31.6 - 40.5)	36.2	(31.7 - 40.9)
District #10	397	26.1	(21.7 - 31.1)	34.5	(29.3 - 40.2)	39.4	(33.7 - 45.3)
Muskegon	223	30.9	(24.0 - 38.7)	38.1	(30.8 - 46.0)	31.0	(24.0 - 39.0)
Region 9	685	26.2	(22.5 - 30.4)	38.0	(33.7 - 42.5)	35.8	(31.6 - 40.2)
District #2	127	35.8	(26.2 - 46.8)	32.0	(23.1 - 42.5)	32.2	(22.8 - 43.3)
District #4	167	18.9	(13.1 - 26.4)	40.4	(31.8 - 49.7)	40.7	(32.0 - 50.1)
Northwest Michigan	202	22.6	(16.6 - 29.8)	46.6	(38.4 - 55.0)	30.8	(24.1 - 38.6)
Benzie-Leelanau	77	31.4	(20.5 - 44.8)	33.2	(22.1 - 46.6)	35.4	(23.7 - 49.1)
Grand Traverse	112	28.9	(19.7 - 40.3)	28.7	(20.0 - 39.3)	42.4	(32.2 - 53.4)
Region 10	571	33.3	(28.7 - 38.1)	34.5	(29.9 - 39.4)	32.3	(27.6 - 37.3)
Bay	121	28.2	(20.0 - 38.2)	34.0	(24.3 - 45.3)	37.8	(27.5 - 49.4)
Huron	43	----- ^e		----- ^e		----- ^e	
Saginaw	265	31.0	(24.8 - 38.1)	37.0	(30.3 - 44.2)	32.0	(25.3 - 39.6)
Sanilac	67	38.7	(25.1 - 54.3)	32.8	(20.7 - 47.8)	28.5	(17.3 - 43.1)
Tuscola	75	41.5	(28.5 - 55.7)	29.7	(18.8 - 43.5)	28.8	(18.2 - 42.4)
Region 11	407	27.2	(22.5 - 32.4)	37.2	(31.8 - 43.0)	35.6	(30.0 - 41.7)
Central Michigan	278	29.0	(23.2 - 35.5)	37.3	(30.7 - 44.4)	33.7	(26.8 - 41.4)
Midland	129	23.8	(16.4 - 33.3)	37.0	(27.9 - 47.2)	39.2	(29.8 - 49.4)
Region 12	507	28.1	(23.7 - 32.9)	37.6	(32.7 - 42.7)	34.4	(29.5 - 39.6)
Luce-Mackinac-Alger-Schoolcraft	64	25.1	(13.9 - 41.0)	45.3	(31.9 - 59.5)	29.6	(19.0 - 42.9)
Western Upper Peninsula	111	29.4	(20.5 - 40.3)	33.3	(23.5 - 44.8)	37.3	(27.0 - 49.0)
Delta-Menominee	111	25.9	(17.6 - 36.5)	38.3	(28.4 - 49.4)	35.7	(25.7 - 47.2)
Chippewa	50	28.6	(16.1 - 45.7)	27.5	(14.7 - 45.4)	43.9	(28.1 - 61.0)
Dickinson-Iron	74	30.7	(20.2 - 43.6)	40.7	(28.6 - 54.1)	28.6	(16.6 - 44.7)
Marquette	97	28.9	(20.1 - 39.7)	40.4	(30.2 - 51.6)	30.7	(21.4 - 41.9)

Note: BMI, body mass index, is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters)²]. Weight and height were self-reported. Pregnant women were excluded.

^a The proportion of respondents whose BMI was greater than or equal to 30.0.

^b The proportion of respondents whose BMI was greater than or equal to 25.0, but less than 30.0.

^c The proportion of respondents whose BMI was less than 25.0.

^d The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^e Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 9: No Leisure-Time Physical Activity 2005 Michigan BRFS			
Geographic Area	No Leisure-Time Physical Activity^a		
	n	%	95% Confidence Interval
Michigan Total	12,125	22.6	(21.7 – 23.5)
Region 1	4,825	23.1	(21.7 – 24.6)
Livingston	190	18.8	(13.3 – 25.8)
Macomb	781	23.8	(20.5 – 27.5)
Monroe	176	27.6	(20.9 – 35.5)
Oakland	1,355	17.6	(15.3 – 20.3)
St. Clair	202	22.7	(16.3 – 30.8)
Washtenaw	426	16.8	(13.0 – 21.3)
City of Detroit	624	35.2	(30.7 – 39.9)
Wayne exc. Detroit	1,050	23.1	(20.2 – 26.3)
Region 2	742	21.6	(18.5 – 25.1)
Genesee	525	24.3	(20.4 – 28.7)
Lapeer	109	20.5	(13.5 – 29.8)
Shiawassee	108	10.5	(6.0 – 17.8)
Region 3	357	25.0	(20.2 – 30.5)
Jackson	220	26.8	(20.6 – 34.1)
Lenawee	137	22.1	(15.2 – 30.9)
Region 4	808	21.7	(18.5 – 25.3)
Barry-Eaton	267	20.4	(14.9 – 27.2)
Mid-Michigan ^b	264	25.1	(19.6 – 31.6)
Ingham	375	22.7	(18.0 – 28.3)
Region 5	712	24.1	(20.5 – 28.2)
Branch-Hillsdale-St. Joseph	197	30.4	(23.2 – 38.6)
Calhoun	203	24.5	(18.0 – 32.3)
Kalamazoo	312	20.3	(15.2 – 26.6)
Region 6	406	24.2	(19.3 – 29.9)
Van Buren-Cass	167	27.9	(20.3 – 37.0)
Berrien	239	21.8	(15.7 – 29.4)

Table 9 Cont'd			
Geographic Area	No Leisure-Time Physical Activity^a		
	n	%	95% Confidence Interval
Michigan Total	12,125	22.6	(21.7 – 23.5)
Region 7	1,364	19.3	(17.1 – 21.7)
Allegan	147	23.2	(16.4 – 31.8)
Ionia	88	22.4	(14.3 – 33.3)
Kent	677	16.7	(13.9 – 19.9)
Mid-Michigan ^b	264	25.1	(19.6 – 31.6)
Ottawa	354	18.9	(14.6 – 24.1)
Region 8	643	24.9	(21.2 – 29.1)
District #10	409	20.8	(16.7 – 25.6)
Muskegon	234	31.5	(24.7 – 39.2)
Region 9	709	20.2	(17.0 – 23.8)
District #2	131	26.5	(18.6 – 36.4)
District #4	174	19.6	(13.8 – 27.0)
Northwest Michigan	213	21.3	(15.6 – 28.3)
Benzie-Leelanau	78	21.5	(12.3 – 35.0)
Grand Traverse	113	10.8	(6.7 – 17.1)
Region 10	603	22.4	(18.8 – 26.5)
Bay	127	20.8	(13.1 – 31.5)
Huron	44	----- ^c	
Saginaw	280	25.0	(19.7 – 31.3)
Sanilac	75	16.0	(9.4 – 25.9)
Tuscola	77	26.1	(16.3 – 39.1)
Region 11	429	26.3	(21.6 – 31.6)
Central Michigan	292	28.6	(22.7 – 35.4)
Midland	137	22.0	(15.0 – 31.2)
Region 12	527	20.5	(16.7 – 24.7)
Luce-Mackinac-Alger-Schoolcraft	66	15.2	(7.8 – 27.7)
Western Upper Peninsula	116	17.6	(11.6 – 25.6)
Delta-Menominee	116	21.0	(13.6 – 31.0)
Chippewa	51	17.9	(8.0 – 35.4)
Dickinson-Iron	78	33.4	(21.7 – 47.7)
Marquette	100	18.8	(12.1 – 28.0)

^a The proportion who reported not participating in any leisure-time physical activities or exercises such as running, calisthenics, golf, gardening, or walking during the past month.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 10: Inadequate Physical Activity 2005 Michigan BRFs			
Geographic Area	Inadequate Physical Activity^a		
	n	%	95% Confidence Interval
Michigan Total	11,388	50.5	(49.4 – 51.6)
Region 1	4,552	50.5	(48.7 – 52.2)
Livingston	182	42.7	(34.9 – 50.9)
Macomb	745	50.5	(46.2 – 54.8)
Monroe	166	52.8	(43.5 – 61.8)
Oakland	1,288	49.5	(46.2 – 52.9)
St. Clair	186	40.3	(32.1 – 49.1)
Washtenaw	404	45.2	(39.5 – 51.1)
City of Detroit	577	57.9	(52.8 – 62.9)
Wayne exc. Detroit	986	51.2	(47.4 – 55.0)
Region 2	697	51.2	(46.7 – 55.7)
Genesee	493	55.7	(50.3 – 61.0)
Lapeer	105	48.5	(37.6 – 59.6)
Shiawassee	99	32.2	(22.0 – 44.5)
Region 3	337	51.5	(45.2 – 57.7)
Jackson	209	53.1	(45.2 – 60.8)
Lenawee	128	48.9	(38.8 – 59.1)
Region 4	756	50.1	(45.8 – 54.4)
Barry-Eaton	245	44.4	(37.2 – 52.0)
Mid-Michigan ^b	250	58.2	(51.1 – 65.0)
Ingham	353	51.3	(44.9 – 57.7)
Region 5	667	52.4	(47.7 – 57.0)
Branch-Hillsdale-St. Joseph	187	51.9	(43.2 – 60.4)
Calhoun	185	51.5	(42.7 – 60.3)
Kalamazoo	295	53.2	(46.3 – 60.1)
Region 6	375	52.9	(46.6 – 59.1)
Van Buren-Cass	150	67.3	(57.9 – 75.5)
Berrien	225	43.8	(36.2 – 51.8)

Table 10 Cont'd			
Geographic Area	Inadequate Physical Activity^a		
	n	%	95% Confidence Interval
Michigan Total	11,388	50.5	(49.4 – 51.6)
Region 7	1,292	51.3	(48.0 – 54.6)
Allegan	139	45.1	(35.7 – 55.0)
Ionia	80	59.5	(47.3 – 70.6)
Kent	640	49.8	(45.1 – 54.5)
Mid-Michigan ^b	250	58.2	(51.1 – 65.0)
Ottawa	341	52.3	(46.0 – 58.6)
Region 8	599	49.9	(45.2 – 54.7)
District #10	379	47.8	(42.0 – 53.7)
Muskegon	220	53.2	(45.1 – 61.1)
Region 9	651	48.4	(43.8 – 53.0)
District #2	119	48.7	(37.8 – 59.6)
District #4	159	47.8	(38.6 – 57.1)
Northwest Michigan	195	54.3	(46.0 – 62.4)
Benzie-Leelanau	70	40.0	(26.8 – 54.8)
Grand Traverse	108	43.9	(33.2 – 55.1)
Region 10	565	51.5	(46.4 – 56.5)
Bay	119	53.8	(42.5 – 64.6)
Huron	40	----- ^c	
Saginaw	260	52.4	(45.0 – 59.7)
Sanilac	71	50.1	(35.9 – 64.3)
Tuscola	75	50.7	(37.0 – 64.2)
Region 11	404	51.5	(45.5 – 57.3)
Central Michigan	273	52.4	(45.1 – 59.6)
Midland	131	49.8	(39.9 – 59.7)
Region 12	493	44.9	(39.7 – 50.1)
Luce-Mackinac-Alger-Schoolcraft	59	33.4	(21.7 – 47.6)
Western Upper Peninsula	109	44.6	(33.9 – 55.9)
Delta-Menominee	110	46.1	(35.3 – 57.2)
Chippewa	50	38.6	(23.7 – 55.9)
Dickinson-Iron	72	60.4	(46.8 – 72.6)
Marquette	93	44.3	(33.5 – 55.7)

^a The proportion who reported that they do not usually do moderate physical activities for a total of at least 30 minutes on five or more days per week or vigorous physical activities for a total of at least 20 minutes on three or more days per week while not at work.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

**Table 11: Inadequate Moderate or Vigorous Physical Activity
2005 Michigan BRFS**

Geographic Area	Inadequate Moderate Physical Activity ^a (< 30 minutes, 5 times / week)			Inadequate Vigorous Physical Activity ^b (< 20 minutes, 3 times / week)		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	11,384	62.5	(61.4 – 63.5)	11,738	72.0	(71.0 – 73.1)
Region 1	4,550	63.9	(62.2 – 65.6)	4,664	70.7	(69.0 – 72.4)
Livingston	182	54.3	(46.1 – 62.4)	183	66.1	(57.5 – 73.7)
Macomb	741	61.6	(57.2 – 65.7)	762	72.0	(67.8 – 76.0)
Monroe	165	60.0	(50.4 – 69.0)	174	77.8	(68.6 – 84.9)
Oakland	1,285	66.0	(62.8 – 69.1)	1,314	67.6	(64.3 – 70.7)
St. Clair	189	51.0	(42.2 – 59.8)	188	69.6	(60.4 – 77.5)
Washtenaw	403	59.7	(53.8 – 65.4)	413	67.3	(61.4 – 72.7)
City of Detroit	579	70.3	(65.4 – 74.8)	592	76.4	(71.6 – 80.5)
Wayne exc. Detroit	988	64.5	(60.8 – 68.1)	1,020	70.9	(67.1 – 74.4)
Region 2	700	59.1	(54.6 – 63.5)	717	75.0	(70.7 – 78.8)
Genesee	497	62.8	(57.4 – 67.9)	508	77.3	(72.3 – 81.7)
Lapeer	105	57.3	(46.2 – 67.7)	107	75.6	(64.4 – 84.2)
Shiawassee	98	43.2	(31.6 – 55.6)	102	63.0	(50.6 – 73.9)
Region 3	334	61.8	(55.5 – 67.8)	351	72.0	(65.9 – 77.4)
Jackson	208	61.8	(53.9 – 69.2)	217	73.2	(65.8 – 79.5)
Lenawee	126	61.8	(51.0 – 71.7)	134	70.1	(59.1 – 79.2)
Region 4	756	59.7	(55.3 – 63.9)	786	75.4	(71.4 – 79.0)
Barry-Eaton	247	52.4	(44.8 – 59.9)	260	74.5	(67.1 – 80.7)
Mid-Michigan ^c	249	66.4	(59.5 – 72.7)	256	80.0	(73.9 – 84.9)
Ingham	352	62.2	(55.8 – 68.2)	362	75.5	(69.4 – 80.7)
Region 5	668	65.6	(60.9 – 69.9)	689	71.0	(66.4 – 75.1)
Branch-Hillsdale-St. Joseph	185	65.0	(56.4 – 72.7)	194	70.7	(61.8 – 78.3)
Calhoun	182	62.8	(53.4 – 71.3)	193	71.1	(61.8 – 78.9)
Kalamazoo	301	67.6	(60.6 – 73.9)	302	71.0	(64.2 – 77.0)
Region 6	372	64.0	(57.8 – 69.7)	389	75.3	(69.5 – 80.4)
Van Buren-Cass	152	73.5	(64.7 – 80.8)	158	85.1	(78.0 – 90.2)
Berrien	220	57.6	(49.4 – 65.4)	231	69.0	(60.9 – 76.2)
Region 7	1,295	62.8	(59.6 – 65.9)	1,323	73.0	(69.8 – 76.0)
Allegan	142	59.3	(49.4 – 68.5)	143	72.0	(61.4 – 80.6)
Ionia	82	68.6	(57.0 – 78.2)	82	80.8	(70.3 – 88.3)
Kent	639	62.2	(57.5 – 66.6)	659	70.2	(65.5 – 74.5)
Mid-Michigan ^c	249	66.4	(59.5 – 72.7)	256	80.0	(73.9 – 84.9)
Ottawa	340	62.9	(56.6 – 68.8)	347	74.0	(67.6 – 79.6)

Table 11 Cont'd

Geographic Area	Inadequate Moderate Physical Activity ^a (< 30 minutes, 5 times / week)			Inadequate Vigorous Physical Activity ^b (< 20 minutes, 3 times / week)		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	11,384	62.5	(61.4 – 63.5)	11,738	72.0	(71.0 – 73.1)
Region 8	602	59.8	(55.0 – 64.4)	618	70.5	(65.7 – 74.8)
District #10	380	57.9	(52.0 – 63.6)	392	69.4	(63.5 – 74.7)
Muskegon	222	62.7	(54.7 – 70.1)	226	72.2	(64.0 – 79.1)
Region 9	646	57.5	(52.9 – 62.0)	691	72.8	(68.5 – 76.8)
District #2	116	59.7	(48.6 – 69.8)	129	74.9	(62.9 – 84.1)
District #4	159	57.8	(48.3 – 66.8)	169	71.7	(62.2 – 79.6)
Northwest Michigan	193	63.5	(55.3 – 71.0)	206	74.6	(67.2 – 80.8)
Benzie-Leelanau	71	45.2	(31.7 – 59.5)	74	65.5	(51.5 – 77.3)
Grand Traverse	107	52.2	(41.0 – 63.2)	113	74.0	(63.4 – 82.4)
Region 10	565	65.1	(60.3 – 69.6)	585	71.3	(66.5 – 75.7)
Bay	120	71.8	(61.3 – 80.4)	122	68.4	(56.9 – 78.0)
Huron	39	----- ^d		43	----- ^d	
Saginaw	260	66.9	(59.9 – 73.3)	271	71.2	(63.8 – 77.7)
Sanilac	71	55.5	(41.1 – 69.0)	74	74.6	(61.5 – 84.4)
Tuscola	75	60.2	(46.3 – 72.6)	75	74.4	(61.9 – 83.8)
Region 11	402	60.8	(54.9 – 66.4)	417	73.6	(68.0 – 78.6)
Central Michigan	271	60.4	(53.1 – 67.2)	280	74.4	(67.3 – 80.5)
Midland	131	61.5	(51.2 – 70.9)	137	72.2	(62.5 – 80.2)
Region 12	494	58.1	(52.9 – 63.2)	508	72.2	(67.0 – 76.9)
Luce-Mackinac-Alger-Schoolcraft	59	53.1	(38.6 – 67.2)	61	65.5	(49.7 – 78.5)
Western Upper Peninsula	111	60.7	(49.1 – 71.2)	111	71.0	(58.3 – 81.2)
Delta-Menominee	110	57.7	(46.3 – 68.3)	112	76.3	(64.4 – 85.2)
Chippewa	51	50.4	(33.9 – 66.7)	49	----- ^d	
Dickinson-Iron	70	70.0	(56.4 – 80.9)	77	81.9	(71.4 – 89.1)
Marquette	93	55.2	(43.8 – 66.0)	98	72.0	(60.8 – 81.0)

^a The proportion who reported that they do not usually do moderate physical activities, such as brisk walking, bicycling, vacuuming, and gardening for at least 30 minutes on five or more days per week while not at work.

^b The proportion who reported that they do not usually participate in vigorous physical activities, such as running, aerobics, and heavy yard work, for at least 20 minutes on three or more days per week while not at work.

^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^d Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 12: Inadequate Fruit and Vegetable Consumption 2005 Michigan BRFS			
Geographic Area	Inadequate Fruit and Vegetable Consumption^a		
	n	%	95% Confidence Interval
Michigan Total	12,017	77.2	(76.3 – 78.1)
Region 1	4,769	76.5	(75.0 – 77.9)
Livingston	189	74.4	(66.8 – 80.8)
Macomb	776	78.5	(74.8 – 81.7)
Monroe	175	77.6	(68.6 – 84.6)
Oakland	1,344	75.1	(72.2 – 77.8)
St. Clair	202	79.1	(71.4 – 85.2)
Washtenaw	420	72.6	(67.6 – 77.1)
City of Detroit	607	78.3	(74.1 – 82.0)
Wayne exc. Detroit	1,037	76.8	(73.6 – 79.7)
Region 2	736	79.6	(76.1 – 82.8)
Genesee	520	80.9	(76.7 – 84.5)
Lapeer	109	75.6	(65.2 – 83.7)
Shiawassee	107	77.6	(67.5 – 85.2)
Region 3	355	74.9	(69.1 – 79.9)
Jackson	220	75.7	(68.4 – 81.8)
Lenawee	135	73.5	(63.5 – 81.5)
Region 4	804	75.7	(71.9 – 79.1)
Barry-Eaton	268	77.0	(70.4 – 82.5)
Mid-Michigan ^b	262	82.5	(77.3 – 86.8)
Ingham	370	71.5	(65.3 – 76.9)
Region 5	703	79.6	(75.8 – 82.9)
Branch-Hillsdale-St. Joseph	195	82.6	(76.2 – 87.6)
Calhoun	199	80.0	(72.4 – 85.9)
Kalamazoo	309	77.6	(71.4 – 82.7)
Region 6	403	81.5	(76.7 – 85.4)
Van Buren-Cass	165	85.0	(78.3 – 90.0)
Berrien	238	79.1	(72.3 – 84.6)

Table 12 Cont'd			
Geographic Area	Inadequate Fruit and Vegetable Consumption^a		
	n	%	95% Confidence Interval
Michigan Total	12,017	77.2	(76.3 – 78.1)
Region 7	1,356	77.4	(74.6 – 79.9)
Allegan	146	78.4	(69.4 – 85.3)
Ionia	88	75.7	(63.4 – 84.9)
Kent	673	76.4	(72.2 – 80.0)
Mid-Michigan ^b	262	82.5	(77.3 – 86.8)
Ottawa	353	78.4	(73.0 – 83.0)
Region 8	637	79.4	(75.4 – 82.9)
District #10	404	78.4	(73.2 – 82.9)
Muskegon	233	80.9	(74.5 – 86.1)
Region 9	709	76.0	(72.1 – 79.5)
District #2	131	84.5	(76.9 – 89.9)
District #4	174	76.5	(68.0 – 83.2)
Northwest Michigan	212	72.5	(65.1 – 78.8)
Benzie-Leelanau	78	65.5	(51.2 – 77.4)
Grand Traverse	114	80.1	(70.6 – 87.1)
Region 10	597	77.5	(73.2 – 81.3)
Bay	126	79.1	(70.7 – 85.6)
Huron	44	----- ^c	
Saginaw	276	79.4	(73.0 – 84.6)
Sanilac	74	77.4	(61.6 – 87.9)
Tuscola	77	72.0	(57.9 – 82.8)
Region 11	426	77.9	(73.1 – 82.1)
Central Michigan	289	79.1	(73.4 – 83.8)
Midland	137	75.8	(66.3 – 83.3)
Region 12	522	74.9	(70.0 – 79.2)
Luce-Mackinac-Alger-Schoolcraft	65	78.8	(65.4 – 87.9)
Western Upper Peninsula	115	73.4	(61.7 – 82.6)
Delta-Menominee	115	77.6	(66.1 – 85.9)
Chippewa	51	85.8	(70.2 – 93.9)
Dickinson-Iron	77	63.8	(49.5 – 76.0)
Marquette	99	72.2	(61.9 – 80.5)

^a The proportion whose total reported consumption of fruits (including juice) and vegetables was less than five times per day.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 13: Diabetes 2005 Michigan BRFS			
Geographic Area	Ever Told Diabetes^a		
	n	%	95% Confidence Interval
Michigan Total	12,118	8.1	(7.6 – 8.6)
Region 1	4,819	7.8	(7.0 – 8.7)
Livingston	190	5.3	(2.9 – 9.5)
Macomb	781	9.0	(6.9 – 11.6)
Monroe	176	7.0	(4.1 – 11.8)
Oakland	1,354	6.5	(5.3 – 8.1)
St. Clair	202	5.7	(3.3 – 9.5)
Washtenaw	425	7.0	(4.6 – 10.5)
City of Detroit	621	12.0	(9.4 – 15.2)
Wayne exc. Detroit	1,049	6.9	(5.5 – 8.7)
Region 2	741	7.8	(6.0 – 10.1)
Genesee	524	8.4	(6.3 – 11.2)
Lapeer	109	8.4	(4.5 – 15.3)
Shiawassee	108	4.6	(1.8 – 11.4)
Region 3	356	6.3	(4.2 – 9.4)
Jackson	219	5.8	(3.5 – 9.5)
Lenawee	137	7.0	(3.5 – 13.6)
Region 4	809	8.3	(6.5 – 10.4)
Barry-Eaton	268	6.3	(3.9 – 9.8)
Mid-Michigan ^b	264	8.7	(5.7 – 13.0)
Ingham	375	9.7	(7.0 – 13.2)
Region 5	712	8.1	(6.3 – 10.3)
Branch-Hillsdale-St. Joseph	197	10.9	(7.1 – 16.2)
Calhoun	203	10.0	(6.6 – 14.9)
Kalamazoo	312	5.3	(3.4 – 8.2)
Region 6	406	6.5	(4.4 – 9.5)
Van Buren-Cass	167	10.1	(6.0 – 16.5)
Berrien	239	4.1	(2.3 – 7.2)

Table 13 Cont'd			
Geographic Area	Ever Told Diabetes^a		
	n	%	95% Confidence Interval
Michigan Total	12,118	8.1	(7.6 – 8.6)
Region 7	1,365	8.3	(6.8 – 10.1)
Allegan	147	6.3	(3.2 – 11.9)
Ionia	88	12.5	(6.9 – 21.7)
Kent	678	8.8	(6.6 – 11.6)
Mid-Michigan ^b	264	8.7	(5.7 – 13.0)
Ottawa	354	6.9	(4.5 – 10.4)
Region 8	643	7.7	(5.9 – 10.1)
District #10	409	6.9	(4.8 – 9.8)
Muskegon	234	9.0	(5.8 – 13.6)
Region 9	710	8.2	(6.2 – 10.9)
District #2	131	11.5	(7.1 – 18.1)
District #4	174	2.9	(1.4 – 5.8)
Northwest Michigan	213	11.5	(7.2 – 17.9)
Benzie-Leelanau	78	6.7	(3.1 – 13.7)
Grand Traverse	114	6.9	(2.5 – 17.6)
Region 10	603	11.7	(9.1 – 15.0)
Bay	127	12.6	(7.5 – 20.3)
Huron	44	----- ^c	
Saginaw	279	11.3	(7.9 – 16.0)
Sanilac	75	7.8	(3.1 – 18.2)
Tuscola	78	20.1	(10.9 – 34.0)
Region 11	427	7.9	(5.7 – 10.8)
Central Michigan	290	9.7	(6.9 – 13.6)
Midland	137	4.5	(2.0 – 9.9)
Region 12	527	8.4	(6.3 – 11.2)
Luce-Mackinac-Alger-Schoolcraft	66	6.8	(2.4 – 17.6)
Western Upper Peninsula	116	8.7	(4.8 – 15.3)
Delta-Menominee	116	4.8	(2.4 – 9.4)
Chippewa	52	8.0	(3.6 – 17.0)
Dickinson-Iron	78	12.6	(6.4 – 23.2)
Marquette	99	11.1	(5.6 – 21.0)

^a The proportion who reported that they were ever told by a doctor that they have diabetes. Women who had diabetes only during pregnancy and adults who were diagnosed with pre-diabetes were considered to not have been diagnosed with diabetes.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 14: Asthma 2005 Michigan BRFS						
Geographic Area	Ever Told Have Asthma^a			Still Have Asthma^b		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	12,101	13.8	(13.0 – 14.6)	12,041	9.0	(8.4 – 9.6)
Region 1	4,815	14.8	(13.5 – 16.1)	4,791	9.4	(8.4 – 10.5)
Livingston	190	16.4	(11.5 – 22.9)	190	9.7	(6.1 – 15.2)
Macomb	781	13.3	(10.6 – 16.6)	776	8.3	(6.1 – 11.1)
Monroe	174	13.9	(8.6 – 21.6)	173	7.1	(3.9 – 12.6)
Oakland	1,354	14.1	(11.8 – 16.8)	1,346	7.4	(5.9 – 9.3)
St. Clair	201	16.4	(11.2 – 23.5)	199	11.9	(7.4 – 18.5)
Washtenaw	425	13.3	(9.8 – 17.8)	423	10.5	(7.4 – 14.7)
City of Detroit	623	18.5	(14.8 – 22.8)	619	13.7	(10.5 – 17.7)
Wayne exc. Detroit	1,046	13.9	(11.6 – 16.7)	1,044	9.0	(7.1 – 11.4)
Region 2	743	13.9	(11.1 – 17.2)	739	9.3	(7.0 – 12.2)
Genesee	527	14.5	(11.1 – 18.7)	523	9.9	(7.1 – 13.6)
Lapeer	109	11.9	(6.8 – 20.1)	109	7.9	(4.0 – 15.0)
Shiawassee	107	12.6	(6.5 – 23.0)	107	8.0	(3.9 – 15.9)
Region 3	355	18.0	(13.7 – 23.2)	352	14.0	(10.3 – 18.8)
Jackson	219	19.8	(14.5 – 26.4)	217	15.4	(11.0 – 21.2)
Lenawee	136	15.1	(8.8 – 24.8)	135	11.8	(6.1 – 21.5)
Region 4	805	12.6	(10.2 – 15.4)	803	9.1	(7.1 – 11.6)
Barry-Eaton	268	12.8	(8.8 – 18.1)	267	8.4	(5.4 – 12.9)
Mid-Michigan ^c	263	12.6	(8.9 – 17.6)	263	8.5	(5.5 – 12.9)
Ingham	372	12.3	(9.1 – 16.5)	371	9.1	(6.3 – 13.1)
Region 5	709	14.3	(11.4 – 17.8)	701	8.7	(6.6 – 11.3)
Branch-Hillsdale-St. Joseph	194	11.0	(7.1 – 16.7)	192	7.7	(4.6 – 12.6)
Calhoun	203	14.7	(9.9 – 21.4)	200	10.2	(6.4 – 15.9)
Kalamazoo	312	15.9	(11.2 – 22.1)	309	8.2	(5.2 – 12.8)
Region 6	403	11.5	(8.3 – 15.8)	402	6.9	(4.7 – 9.9)
Van Buren-Cass	166	12.0	(7.2 – 19.2)	166	9.4	(5.5 – 15.7)
Berrien	237	11.3	(7.4 – 16.9)	236	5.1	(3.0 – 8.7)
Region 7	1,363	13.1	(11.0 – 15.5)	1,356	7.8	(6.3 – 9.7)
Allegan	147	12.8	(7.4 – 21.4)	147	9.2	(5.1 – 16.3)
Ionia	87	10.4	(4.8 – 21.4)	87	4.7	(1.7 – 12.4)
Kent	678	14.6	(11.4 – 18.4)	671	8.6	(6.3 – 11.7)
Mid-Michigan ^c	263	12.6	(8.9 – 17.6)	263	8.5	(5.5 – 12.9)
Ottawa	353	11.0	(7.9 – 15.2)	353	6.8	(4.5 – 10.1)

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Table 14 Cont'd

Geographic Area	Ever Told Have Asthma ^a			Still Have Asthma ^b		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	12,101	13.8	(13.0 – 14.6)	12,041	9.0	(8.4 – 9.6)
Region 8	640	9.7	(7.2 – 12.8)	637	5.5	(4.0 – 7.6)
District #10	409	9.4	(6.4 – 13.6)	408	5.3	(3.5 – 7.9)
Muskegon	231	10.1	(6.4 – 15.6)	229	5.9	(3.4 – 9.9)
Region 9	708	14.1	(11.2 – 17.6)	707	11.1	(8.5 – 14.4)
District #2	131	13.0	(7.8 – 20.7)	131	11.5	(6.6 – 19.1)
District #4	173	13.1	(7.7 – 21.6)	172	8.3	(4.3 – 15.3)
Northwest Michigan	212	13.3	(8.6 – 20.1)	212	10.7	(6.4 – 17.4)
Benzie-Leelanau	78	15.3	(7.0 – 30.2)	78	12.6	(5.2 – 27.8)
Grand Traverse	114	17.3	(10.6 – 26.9)	114	14.2	(8.1 – 23.6)
Region 10	604	12.7	(9.7 – 16.5)	600	8.5	(6.1 – 11.7)
Bay	127	20.9	(12.6 – 32.6)	126	9.0	(4.1 – 18.3)
Huron	44	----- ^d		44	----- ^d	
Saginaw	280	10.8	(7.4 – 15.3)	277	7.9	(5.0 – 12.2)
Sanilac	75	15.2	(6.4 – 31.9)	75	13.4	(5.1 – 30.9)
Tuscola	78	9.8	(4.6 – 19.9)	78	8.2	(3.6 – 17.8)
Region 11	429	12.4	(9.4 – 16.1)	428	8.6	(6.1 – 11.9)
Central Michigan	292	12.2	(8.7 – 16.7)	291	9.4	(6.4 – 13.4)
Midland	137	12.8	(7.7 – 20.3)	137	7.2	(3.5 – 14.2)
Region 12	527	13.0	(10.0 – 16.7)	525	8.8	(6.3 – 12.1)
Luce-Mackinac-Alger-Schoolcraft	66	19.5	(10.2 – 34.3)	65	15.0	(7.0 – 29.3)
Western Upper Peninsula	116	11.7	(6.5 – 20.1)	116	5.1	(2.4 – 10.4)
Delta-Menominee	115	13.2	(7.9 – 21.4)	115	10.0	(5.4 – 17.8)
Chippewa	52	13.5	(5.0 – 31.4)	51	12.3	(4.2 – 31.1)
Dickinson-Iron	78	5.8	(2.5 – 13.0)	78	3.2	(1.2 – 8.4)
Marquette	100	14.6	(8.4 – 24.0)	100	9.4	(4.8 – 17.8)

^a The proportion who reported that they were ever told by a doctor, nurse, or other health care professional that they had asthma.

^b Among all respondents, the proportion who reported that they still had asthma.

^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^d Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

**Table 15: Cigarette Consumption
2005 Michigan BRFs**

Geographic Area	Sample Size	Current Smoker ^a		Former Smoker ^b		Never Smoker	
	n	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	12,086	21.9	(21.0 – 22.9)	26.1	(25.3 – 27.0)	51.9	(50.9 – 53.0)
Region 1	4,810	21.3	(19.9 – 22.8)	24.6	(23.3 – 26.0)	54.1	(52.4 – 55.8)
Livingston	190	16.2	(11.0 – 23.3)	29.4	(22.7 – 37.0)	54.4	(46.4 – 62.3)
Macomb	779	23.0	(19.6 – 26.8)	26.7	(23.4 – 30.3)	50.3	(46.0 – 54.5)
Monroe	176	29.1	(21.7 – 38.0)	27.8	(21.2 – 35.7)	43.0	(34.4 – 52.1)
Oakland	1,350	17.7	(15.2 – 20.6)	27.0	(24.4 – 29.8)	55.3	(52.0 – 58.5)
St. Clair	202	35.1	(27.2 – 43.9)	25.9	(19.5 – 33.5)	39.0	(31.1 – 47.5)
Washtenaw	425	12.0	(8.8 – 16.2)	20.3	(16.5 – 24.6)	67.8	(62.5 – 72.6)
City of Detroit	622	26.5	(22.4 – 31.1)	19.3	(16.1 – 22.9)	54.2	(49.4 – 59.0)
Wayne exc. Detroit	1,046	21.7	(18.8 – 24.8)	24.0	(21.2 – 27.0)	54.4	(50.7 – 58.0)
Region 2	741	22.7	(19.2 – 26.7)	26.9	(23.5 – 30.7)	50.3	(46.0 – 54.7)
Genesee	525	23.7	(19.5 – 28.4)	24.9	(21.0 – 29.3)	51.4	(46.3 – 56.6)
Lapeer	109	18.9	(11.5 – 29.6)	33.2	(24.3 – 43.6)	47.9	(37.2 – 58.8)
Shiawassee	107	22.1	(13.6 – 33.9)	30.3	(20.8 – 41.9)	47.5	(36.0 – 59.4)
Region 3	356	23.2	(18.2 – 29.0)	23.2	(18.8 – 28.2)	53.7	(47.6 – 59.7)
Jackson	220	24.6	(18.4 – 32.0)	23.5	(18.2 – 29.8)	52.0	(44.3 – 59.5)
Lenawee	136	20.8	(13.2 – 31.2)	22.7	(15.7 – 31.8)	56.5	(46.3 – 66.1)
Region 4	806	20.4	(17.1 – 24.2)	25.2	(22.0 – 28.8)	54.4	(50.2 – 58.5)
Barry-Eaton	267	21.5	(15.8 – 28.6)	28.8	(22.7 – 35.7)	49.7	(42.5 – 57.0)
Mid-Michigan ^c	262	23.0	(17.4 – 29.8)	22.5	(17.5 – 28.4)	54.5	(47.5 – 61.4)
Ingham	374	18.0	(13.4 – 23.6)	25.0	(20.4 – 30.2)	57.1	(50.9 – 63.0)
Region 5	707	22.0	(18.5 – 26.0)	25.9	(22.3 – 29.8)	52.1	(47.6 – 56.6)
Branch-Hillsdale-St. Joseph	197	30.0	(22.5 – 38.7)	29.0	(22.2 – 36.8)	41.1	(33.1 – 49.5)
Calhoun	199	20.8	(15.2 – 27.8)	26.3	(19.6 – 34.3)	52.9	(44.5 – 61.2)
Kalamazoo	311	18.3	(13.4 – 24.4)	23.8	(18.8 – 29.7)	57.9	(51.1 – 64.4)
Region 6	403	22.1	(17.1 – 28.2)	26.4	(21.8 – 31.6)	51.5	(45.4 – 57.5)
Van Buren-Cass	167	26.5	(18.4 – 36.7)	27.5	(20.5 – 35.9)	46.0	(36.8 – 55.5)
Berrien	236	19.2	(13.2 – 26.9)	25.7	(19.9 – 32.5)	55.2	(47.3 – 62.8)
Region 7	1,360	20.5	(17.9 – 23.4)	28.6	(25.9 – 31.4)	50.9	(47.7 – 54.1)
Allegan	147	32.6	(23.7 – 42.9)	25.8	(18.7 – 34.4)	41.7	(32.6 – 51.3)
Ionia	88	25.2	(16.1 – 37.2)	30.8	(21.1 – 42.6)	44.0	(32.5 – 56.1)
Kent	675	20.5	(16.7 – 24.9)	29.2	(25.5 – 33.3)	50.3	(45.7 – 54.9)
Mid-Michigan ^c	262	23.0	(17.4 – 29.8)	22.5	(17.5 – 28.4)	54.5	(47.5 – 61.4)
Ottawa	353	14.5	(10.7 – 19.5)	28.5	(23.3 – 34.3)	57.0	(50.8 – 63.0)

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Table 15 Cont'd

Geographic Area	Sample Size	Current Smoker ^a		Former Smoker ^b		Never Smoker	
		%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	12,086	21.9	(21.0 – 22.9)	26.1	(25.3 – 27.0)	51.9	(50.9 – 53.0)
Region 8	641	23.4	(19.5 – 27.7)	27.1	(23.4 – 31.1)	49.5	(44.9 – 54.2)
District #10	410	22.7	(17.9 – 28.4)	27.6	(23.1 – 32.6)	49.7	(44.0 – 55.3)
Muskegon	231	24.3	(18.3 – 31.6)	26.3	(20.4 – 33.3)	49.3	(41.5 – 57.2)
Region 9	704	25.2	(21.2 – 29.5)	30.7	(26.9 – 34.7)	44.2	(39.8 – 48.7)
District #2	130	32.0	(22.3 – 43.6)	31.9	(23.5 – 41.8)	36.1	(26.7 – 46.7)
District #4	173	28.6	(21.0 – 37.6)	31.4	(23.9 – 40.0)	40.0	(31.6 – 49.1)
Northwest Michigan	211	23.1	(16.5 – 31.2)	28.7	(22.4 – 36.0)	48.2	(40.3 – 56.3)
Benzie-Leelanau	77	14.2	(6.2 – 29.3)	33.5	(22.8 – 46.3)	52.3	(38.9 – 65.4)
Grand Traverse	113	24.4	(16.0 – 35.3)	29.8	(20.8 – 40.7)	45.8	(35.3 – 56.7)
Region 10	603	23.3	(19.2 – 27.9)	25.5	(21.7 – 29.6)	51.3	(46.3 – 56.2)
Bay	127	27.8	(18.7 – 39.1)	27.1	(19.2 – 36.8)	45.1	(34.6 – 56.0)
Huron	44	----- ^d		----- ^d		----- ^d	
Saginaw	280	22.5	(17.0 – 29.1)	26.1	(20.6 – 32.5)	51.5	(44.3 – 58.5)
Sanilac	75	27.7	(16.3 – 42.9)	25.5	(16.1 – 37.8)	46.9	(33.1 – 61.1)
Tuscola	77	16.5	(8.1 – 30.7)	24.4	(15.4 – 36.3)	59.2	(45.5 – 71.5)
Region 11	429	25.3	(20.2 – 31.2)	26.0	(21.7 – 30.8)	48.7	(43.0 – 54.4)
Central Michigan	292	28.2	(21.8 – 35.7)	27.4	(22.1 – 33.5)	44.4	(37.5 – 51.4)
Midland	137	19.9	(12.6 – 29.9)	23.3	(16.7 – 31.5)	56.9	(47.0 – 66.2)
Region 12	526	21.8	(17.8 – 26.5)	31.7	(27.4 – 36.4)	46.5	(41.4 – 51.6)
Luce-Mackinac-Alger-Schoolcraft	66	27.3	(16.5 – 41.6)	28.3	(18.4 – 41.0)	44.4	(31.0 – 58.7)
Western Upper Peninsula	116	22.8	(17.9 – 33.2)	35.3	(25.9 – 45.9)	42.0	(31.3 – 53.5)
Delta-Menominee	116	19.5	(11.8 – 30.6)	27.1	(18.9 – 37.2)	53.4	(42.5 – 64.0)
Chippewa	51	29.8	(15.8 – 48.9)	28.0	(15.8 – 44.6)	42.3	(27.1 – 59.1)
Dickinson-Iron	77	16.1	(9.1 – 26.9)	32.9	(22.3 – 45.7)	51.0	(37.9 – 63.9)
Marquette	100	18.9	(11.9 – 28.6)	37.3	(27.5 – 48.3)	43.8	(33.4 – 54.9)

^a The proportion who reported that they had ever smoked at least 100 cigarettes (five packs) in their life and that they smoke cigarettes now, either every day or on some days.

^b The proportion who reported that they had ever smoked at least 100 cigarettes (five packs) in their life, but they do not smoke cigarettes now.

^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^d Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 16: Alcohol Consumption 2005 Michigan BRFs						
Geographic Area	Heavy Drinking^a			Binge Drinking^b		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	11,917	5.7	(5.2 – 6.3)	12,011	16.7	(15.8 – 17.6)
Region 1	4,735	5.2	(4.4 – 6.0)	4,783	15.7	(14.4 – 17.2)
Livingston	188	6.3	(3.3 – 11.6)	190	18.0	(12.3 – 25.6)
Macomb	765	5.1	(3.5 – 7.4)	773	17.6	(14.4 – 21.4)
Monroe	174	4.5	(2.2 – 8.8)	174	16.4	(10.3 – 24.9)
Oakland	1,332	6.2	(4.6 – 8.4)	1,343	14.1	(11.7 – 16.9)
St. Clair	197	7.6	(4.1 – 13.7)	200	24.9	(17.9 – 33.6)
Washtenaw	415	4.6	(2.9 – 7.3)	421	14.2	(10.4 – 19.1)
City of Detroit	593	2.1	(1.2 – 3.8)	317	13.1	(9.9 – 17.0)
Wayne exc. Detroit	1,034	5.7	(4.2 – 7.8)	1,044	16.9	(14.1 – 20.2)
Region 2	731	4.5	(2.9 – 6.9)	738	15.9	(12.6 – 19.7)
Genesee	521	4.3	(2.5 – 7.3)	522	12.6	(9.4 – 16.8)
Lapeer	106	8.2	(3.4 – 18.6)	109	19.2	(11.0 – 31.3)
Shiawassee	104	2.1	(0.6 – 6.7)	107	27.5	(17.3 – 40.8)
Region 3	353	5.8	(3.3 – 9.9)	352	14.4	(10.2 – 20.1)
Jackson	217	3.9	(1.9 – 7.8)	217	12.6	(8.1 – 19.2)
Lenawee	136	8.9	(4.0 – 18.5)	135	17.4	(9.9 – 28.7)
Region 4	796	7.1	(4.9 – 10.2)	795	17.5	(14.1 – 21.5)
Barry-Eaton	258	7.5	(3.8 – 14.0)	262	16.7	(10.9 – 24.7)
Mid-Michigan ^c	262	6.4	(3.4 – 11.7)	263	22.1	(16.1 – 29.5)
Ingham	373	8.0	(4.8 – 13.0)	368	15.4	(11.1 – 21.0)
Region 5	702	7.0	(4.8 – 10.2)	705	15.6	(12.3 – 19.6)
Branch-Hillsdale-St. Joseph	195	8.0	(4.1 – 15.2)	196	10.1	(5.9 – 16.7)
Calhoun	201	5.3	(2.3 – 11.5)	202	13.5	(8.1 – 21.7)
Kalamazoo	306	7.6	(4.4 – 13.0)	307	20.0	(14.7 – 26.7)
Region 6	395	7.0	(4.8 – 10.2)	401	17.0	(13.0 – 21.9)
Van Buren-Cass	161	7.8	(4.5 – 13.2)	166	14.5	(9.2 – 22.2)
Berrien	234	6.5	(3.8 – 11.0)	235	18.7	(13.4 – 25.5)
Region 7	1,346	6.3	(4.7 – 8.4)	1,354	17.3	(14.7 – 20.2)
Allegan	144	8.4	(4.2 – 16.1)	146	20.0	(12.9 – 29.6)
Ionia	85	1.5	(0.3 – 6.6)	88	13.0	(6.5 – 24.1)
Kent	669	5.6	(3.6 – 8.5)	672	19.1	(15.3 – 23.7)
Mid-Michigan ^c	262	6.4	(3.4 – 11.7)	263	22.1	(16.1 – 29.5)
Ottawa	351	7.2	(4.1 – 12.2)	350	13.0	(8.9 – 18.7)

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Table 16 Cont'd

Geographic Area	Heavy Drinking ^a			Binge Drinking ^b		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	11,917	5.7	(5.2 – 6.3)	12,011	16.7	(15.8 – 17.6)
Region 8	631	4.5	(2.9 – 7.0)	641	16.3	(13.0 – 20.2)
District #10	400	4.5	(2.6 – 7.8)	409	16.2	(12.2 – 21.2)
Muskegon	231	4.6	(2.2 – 9.4)	232	16.3	(11.3 – 23.1)
Region 9	700	5.5	(3.8 – 7.8)	700	16.8	(13.5 – 20.7)
District #2	130	2.9	(1.2 – 7.1)	130	17.9	(10.5 – 28.9)
District #4	170	6.4	(3.4 – 12.0)	170	18.4	(12.1 – 27.0)
Northwest Michigan	210	8.0	(4.4 – 14.2)	211	20.5	(14.3 – 28.5)
Benzie-Leelanau	76	0*		75	10.7	(4.5 – 23.4)
Grand Traverse	114	6.1	(2.9 – 12.4)	114	10.5	(5.4 – 19.3)
Region 10	588	5.8	(3.7 – 8.8)	599	19.7	(15.7 – 24.5)
Bay	123	6.4	(2.5 – 15.5)	125	28.3	(18.3 – 40.9)
Huron	43	----- ^d		44	----- ^d	
Saginaw	272	5.4	(2.6 – 10.8)	277	15.8	(10.9 – 22.3)
Sanilac	72	7.8	(3.4 – 16.9)	75	18.4	(8.9 – 34.0)
Tuscola	78	4.5	(1.1 – 16.8)	78	24.3	(13.8 – 39.3)
Region 11	421	4.4	(2.4 – 7.9)	422	16.9	(12.7 – 22.1)
Central Michigan	287	4.9	(2.3 – 10.0)	286	15.4	(10.8 – 21.6)
Midland	134	3.6	(1.4 – 9.1)	136	19.5	(12.2 – 29.8)
Region 12	519	8.3	(5.6 – 12.3)	521	23.7	(19.2 – 28.9)
Luce-Mackinac-Alger-Schoolcraft	64	2.6	(0.6 – 9.9)	65	17.7	(8.8 – 32.3)
Western Upper Peninsula	114	8.6	(3.2 – 21.4)	116	31.0	(20.8 – 43.6)
Delta-Menominee	115	8.7	(3.9 – 18.3)	116	21.1	(13.3 – 31.8)
Chippewa	52	14.3	(5.0 – 34.6)	51	33.9	(19.0 – 52.7)
Dickinson-Iron	76	10.9	(4.8 – 22.9)	76	23.4	(12.5 – 39.6)
Marquette	98	5.8	(2.2 – 14.2)	97	16.1	(8.9 – 27.5)

* Zero respondents in this local health department reported consuming on average more than two alcoholic beverages per day for men or more than one alcoholic beverages per day for women.

^a The proportion who reported consuming on average more than two alcoholic beverages per day for men or more than one alcoholic beverage per day for women.

^b The proportion who reported consuming five or more drinks per occasion at least once in the previous month.

^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^d Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 17: Ever Told Heart Attack 2005 Michigan BRFs			
Geographic Area	Ever Told Heart Attack^a		
	n	%	95% Confidence Interval
Michigan Total	12,056	4.7	(4.3 – 5.1)
Region 1	4,797	4.5	(3.9 – 5.1)
Livingston	190	2.8	(1.2 – 6.2)
Macomb	780	5.3	(3.9 – 7.2)
Monroe	174	3.8	(2.1 – 6.9)
Oakland	1,347	3.8	(2.9 – 4.9)
St. Clair	202	5.8	(3.4 – 9.5)
Washtenaw	425	2.6	(1.6 – 4.3)
City of Detroit	616	6.2	(4.4 – 8.7)
Wayne exc. Detroit	1,043	4.2	(3.0 – 5.7)
Region 2	735	5.7	(4.1 – 7.7)
Genesee	520	5.9	(4.1 – 8.5)
Lapeer	109	8.1	(4.1 – 15.5)
Shiawassee	106	2.0	(0.7 – 5.5)
Region 3	355	6.8	(4.6 – 10.0)
Jackson	218	5.4	(3.0 – 9.3)
Lenawee	137	9.2	(5.4 – 15.3)
Region 4	804	4.3	(3.1 – 5.9)
Barry-Eaton	268	5.2	(3.1 – 8.5)
Mid-Michigan ^b	260	4.3	(2.5 – 7.4)
Ingham	372	3.6	(2.1 – 6.0)
Region 5	707	4.8	(3.6 – 6.5)
Branch-Hillsdale-St. Joseph	195	5.9	(3.3 – 10.1)
Calhoun	203	6.7	(4.2 – 10.6)
Kalamazoo	309	3.1	(1.8 – 5.3)
Region 6	404	3.5	(2.1 – 6.0)
Van Buren-Cass	166	4.2	(1.8 – 9.6)
Berrien	238	3.1	(1.6 – 6.1)

Table 17 Cont'd			
Geographic Area	Ever Told Heart Attack^a		
	n	%	95% Confidence Interval
Michigan Total	12,056	4.7	(4.3 – 5.1)
Region 7	1,354	3.6	(2.7 – 4.7)
Allegan	146	6.9	(3.9 – 12.0)
Ionia	88	3.0	(1.1 – 8.0)
Kent	672	3.0	(1.9 – 4.8)
Mid-Michigan ^b	260	4.3	(2.5 – 7.4)
Ottawa	352	3.3	(1.9 – 5.5)
Region 8	641	4.7	(3.3 – 6.5)
District #10	407	5.3	(3.6 – 7.9)
Muskegon	234	3.6	(2.0 – 6.5)
Region 9	708	5.2	(3.8 – 7.2)
District #2	130	6.2	(3.1 – 12.0)
District #4	174	5.8	(3.1 – 10.7)
Northwest Michigan	213	4.5	(2.3 – 8.5)
Benzie-Leelanau	78	4.1	(1.5 – 10.8)
Grand Traverse	113	5.5	(2.6 – 11.2)
Region 10	598	5.9	(4.3 – 8.2)
Bay	127	3.9	(1.7 – 8.6)
Huron	41	----- ^c	
Saginaw	277	7.8	(5.0 – 12.0)
Sanilac	75	2.5	(0.6 – 9.9)
Tuscola	78	6.5	(2.8 – 14.3)
Region 11	428	6.4	(4.4 – 9.2)
Central Michigan	292	6.7	(4.4 – 10.2)
Midland	136	5.6	(2.7 – 11.6)
Region 12	525	4.1	(2.8 – 6.0)
Luce-Mackinac-Alger-Schoolcraft	66	3.0	(0.7 – 11.4)
Western Upper Peninsula	116	1.9	(0.6 – 6.4)
Delta-Menominee	114	3.1	(1.4 – 7.0)
Chippewa	52	2.7	(0.6 – 11.0)
Dickinson-Iron	78	11.2	(5.7 – 20.7)
Marquette	99	4.3	(1.7 – 10.3)
^a Among all adults, the proportion who had ever been told by a doctor that they had a heart attack or myocardial infarction. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate. ^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.			

Table 18: Ever Told Angina or Coronary Heart Disease 2005 Michigan BRFS			
Geographic Area	Ever Told Angina or Coronary Heart Disease^a		
	n	%	95% Confidence Interval
Michigan Total	12,023	4.6	(4.2 – 5.0)
Region 1	4,779	4.5	(3.9 – 5.1)
Livingston	188	1.4	(0.5 – 4.0)
Macomb	778	6.1	(4.6 – 7.9)
Monroe	171	5.1	(2.8 – 9.3)
Oakland	1,345	4.4	(3.4 – 5.7)
St. Clair	202	3.9	(1.6 – 9.4)
Washtenaw	419	1.7	(0.8 – 3.4)
City of Detroit	619	5.0	(3.5 – 7.1)
Wayne exc. Detroit	1,036	4.4	(3.2 – 6.0)
Region 2	735	4.4	(3.1 – 6.1)
Genesee	521	4.4	(3.0 – 6.5)
Lapeer	108	4.9	(1.9 – 11.9)
Shiawassee	106	3.8	(1.5 – 9.3)
Region 3	354	4.4	(2.6 – 7.1)
Jackson	217	4.4	(2.2 – 8.4)
Lenawee	137	4.3	(2.0 – 9.0)
Region 4	804	3.5	(2.5 – 5.0)
Barry-Eaton	267	3.9	(2.1 – 7.0)
Mid-Michigan ^b	259	4.1	(2.3 – 7.2)
Ingham	372	3.5	(2.0 – 5.8)
Region 5	700	3.9	(2.8 – 5.5)
Branch-Hillsdale-St. Joseph	193	3.6	(1.8 – 7.0)
Calhoun	199	5.6	(3.3 – 9.3)
Kalamazoo	308	3.0	(1.6 – 5.5)
Region 6	403	5.6	(3.8 – 8.2)
Van Buren-Cass	166	8.0	(4.6 – 13.5)
Berrien	237	4.0	(2.3 – 6.9)

Table 18 Cont'd			
Geographic Area	Ever Told Angina or Coronary Heart Disease^a		
	n	%	95% Confidence Interval
Michigan Total	12,023	4.6	(4.2 – 5.0)
Region 7	1,350	3.8	(2.9 – 5.0)
Allegan	144	4.8	(2.6 – 8.9)
Ionia	87	2.2	(0.7 – 6.6)
Kent	674	3.7	(2.4 – 5.6)
Mid-Michigan ^b	259	4.1	(2.3 – 7.2)
Ottawa	351	3.4	(1.9 – 6.0)
Region 8	641	5.2	(3.7 – 7.2)
District #10	407	6.0	(4.0 – 8.9)
Muskegon	234	4.0	(2.2 – 7.0)
Region 9	705	5.2	(3.8 – 7.2)
District #2	130	6.7	(3.5 – 12.7)
District #4	171	4.6	(2.1 – 9.6)
Northwest Michigan	213	4.4	(2.3 – 8.3)
Benzie-Leelanau	78	4.7	(1.9 – 11.4)
Grand Traverse	113	6.2	(2.9 – 12.8)
Region 10	599	6.2	(4.5 – 8.6)
Bay	127	8.8	(5.0 – 14.8)
Huron	44	----- ^c	
Saginaw	277	5.7	(3.6 – 9.1)
Sanilac	75	7.9	(2.4 – 23.0)
Tuscola	76	3.1	(0.9 – 10.4)
Region 11	427	6.8	(4.8 – 9.5)
Central Michigan	290	7.3	(5.0 – 10.7)
Midland	137	5.7	(2.7 – 11.4)
Region 12	526	5.0	(3.6 – 7.1)
Luce-Mackinac-Alger-Schoolcraft	66	2.0	(0.5 – 8.4)
Western Upper Peninsula	116	3.3	(1.4 – 7.9)
Delta-Menominee	114	5.3	(2.5 – 10.9)
Chippewa	52	4.6	(1.6 – 12.7)
Dickinson-Iron	78	9.0	(4.5 – 17.2)
Marquette	100	6.4	(3.1 – 12.6)

^a Among all adults, the proportion who had ever been told by a doctor that they had angina or coronary heart disease.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 19: Ever Told Stroke 2005 Michigan BRFS			
Geographic Area	Ever Told Stroke^a		
	n	%	95% Confidence Interval
Michigan Total	12,084	3.0	(2.7 – 3.3)
Region 1	4,805	3.1	(2.6 – 3.7)
Livingston	190	1.9	(0.8 – 4.8)
Macomb	782	4.0	(2.7 – 5.9)
Monroe	175	2.8	(1.0 – 7.5)
Oakland	1,351	2.5	(1.7 – 3.7)
St. Clair	200	3.2	(1.7 – 6.1)
Washtenaw	424	2.1	(1.1 – 4.0)
City of Detroit	621	5.2	(3.5 – 7.6)
Wayne exc. Detroit	1,041	2.0	(1.3 – 3.2)
Region 2	742	3.4	(2.3 – 5.0)
Genesee	526	3.4	(2.2 – 5.4)
Lapeer	108	5.1	(2.2 – 11.3)
Shiawassee	108	2.0	(0.6 – 6.2)
Region 3	354	3.7	(1.9 – 7.0)
Jackson	218	3.1	(1.5 – 6.3)
Lenawee	136	4.6	(1.5 – 13.6)
Region 4	806	2.8	(1.9 – 4.3)
Barry-Eaton	268	4.5	(2.4 – 8.4)
Mid-Michigan ^b	263	1.4	(0.6 – 3.2)
Ingham	372	2.2	(1.2 – 4.1)
Region 5	707	3.8	(2.6 – 5.6)
Branch-Hillsdale-St. Joseph	196	5.8	(3.3 – 10.1)
Calhoun	201	3.3	(1.7 – 6.3)
Kalamazoo	310	3.0	(1.4 – 6.5)
Region 6	405	2.1	(1.1 – 4.0)
Van Buren-Cass	167	2.2	(0.7 – 6.5)
Berrien	238	1.9	(0.8 – 4.3)

Table 19 Cont'd			
Geographic Area	Ever Told Stroke^a		
	n	%	95% Confidence Interval
Michigan Total	12,084	3.0	(2.7 – 3.3)
Region 7	1,359	2.2	(1.5 – 3.2)
Allegan	146	1.2	(0.4 – 3.8)
Ionia	88	1.6	(0.4 – 6.3)
Kent	676	2.2	(1.3 – 3.8)
Mid-Michigan ^b	263	1.4	(0.6 – 3.2)
Ottawa	352	3.0	(1.6 – 5.4)
Region 8	644	3.0	(2.0 – 4.6)
District #10	410	3.6	(2.2 – 5.8)
Muskegon	234	2.1	(0.9 – 4.7)
Region 9	708	3.3	(2.2 – 5.0)
District #2	130	2.9	(1.1 – 7.3)
District #4	174	2.6	(1.2 – 5.6)
Northwest Michigan	213	4.7	(2.4 – 9.1)
Benzie-Leelanau	78	2.4	(0.7 – 8.1)
Grand Traverse	113	3.0	(1.1 – 8.0)
Region 10	599	3.1	(2.0 – 4.6)
Bay	126	1.7	(0.6 – 4.9)
Huron	44	----- ^c	
Saginaw	277	3.4	(1.9 – 6.0)
Sanilac	74	1.5	(0.2 – 10.2)
Tuscola	78	4.4	(1.6 – 11.3)
Region 11	427	2.3	(1.3 – 4.0)
Central Michigan	290	3.3	(1.8 – 5.9)
Midland	137	0.4	(0.1 – 1.8)
Region 12	528	2.4	(1.4 – 4.0)
Luce-Mackinac-Alger-Schoolcraft	66	5.3	(1.8 – 14.6)
Western Upper Peninsula	116	1.2	(0.4 – 3.7)
Delta-Menominee	116	0.6	(0.1 – 4.2)
Chippewa	52	3.1	(0.7 – 11.9)
Dickinson-Iron	78	4.7	(1.7 – 12.3)
Marquette	100	1.9	(0.6 – 5.8)

^a Among all adults, the proportion who had ever been told by a doctor that they had a stroke.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 20: Hypertension Awareness 2005 Michigan BRFS			
Geographic Area	Ever Told High Blood Pressure^a		
	n	%	95% Confidence Interval
Michigan Total	12,117	27.8	(26.9 – 28.8)
Region 1	4,815	27.4	(26.0 – 28.9)
Livingston	190	19.7	(14.5 – 26.2)
Macomb	780	27.6	(24.3 – 31.2)
Monroe	176	26.3	(19.7 – 34.3)
Oakland	1,352	27.3	(24.6 – 30.2)
St. Clair	201	34.3	(26.9 – 42.6)
Washtenaw	425	22.5	(18.3 – 27.2)
City of Detroit	624	34.3	(30.1 – 38.9)
Wayne exc. Detroit	1,046	24.3	(21.6 – 27.2)
Region 2	744	28.1	(24.6 – 31.9)
Genesee	527	30.4	(26.1 – 35.1)
Lapeer	109	22.0	(14.9 – 31.4)
Shiawassee	108	23.5	(16.0 – 33.0)
Region 3	357	30.9	(25.8 – 36.6)
Jackson	220	28.7	(22.7 – 35.7)
Lenawee	137	34.5	(25.8 – 44.4)
Region 4	809	26.2	(22.9 – 29.7)
Barry-Eaton	268	23.9	(18.9 – 29.8)
Mid-Michigan ^b	264	31.9	(26.1 – 38.4)
Ingham	375	25.8	(21.0 – 31.2)
Region 5	711	26.2	(22.8 – 30.0)
Branch-Hillsdale-St. Joseph	197	26.7	(20.7 – 33.7)
Calhoun	203	29.0	(22.7 – 36.3)
Kalamazoo	311	24.2	(19.1 – 30.0)
Region 6	406	29.6	(24.8 – 35.0)
Van Buren-Cass	167	28.8	(21.7 – 37.2)
Berrien	239	30.2	(23.9 – 37.3)

Table 20 Cont'd			
Geographic Area	Ever Told High Blood Pressure^a		
	n	%	95% Confidence Interval
Michigan Total	12,117	27.8	(26.9 – 28.8)
Region 7	1,365	26.2	(23.7 – 28.8)
Allegan	147	24.4	(17.5 – 32.9)
Ionia	88	27.8	(19.1 – 38.6)
Kent	678	28.8	(25.0 – 32.9)
Mid-Michigan ^b	264	31.9	(26.1 – 38.4)
Ottawa	354	19.4	(15.7 – 23.8)
Region 8	644	30.5	(26.6 – 34.8)
District #10	410	30.7	(25.8 – 36.0)
Muskegon	234	30.3	(24.0 – 37.5)
Region 9	710	31.4	(27.6 – 35.5)
District #2	131	39.2	(29.5 – 49.9)
District #4	174	32.4	(24.9 – 40.9)
Northwest Michigan	213	27.1	(21.0 – 34.1)
Benzie-Leelanau	78	29.4	(19.6 – 41.7)
Grand Traverse	114	30.9	(22.1 – 41.3)
Region 10	602	28.4	(24.4 – 32.8)
Bay	126	27.7	(19.7 – 37.4)
Huron	44	----- ^c	
Saginaw	280	28.1	(22.5 – 34.6)
Sanilac	75	22.0	(13.6 – 33.7)
Tuscola	77	35.6	(23.7 – 49.5)
Region 11	427	27.7	(23.3 – 32.6)
Central Michigan	290	32.0	(26.2 – 38.5)
Midland	137	19.6	(13.8 – 27.1)
Region 12	527	29.3	(25.3 – 33.6)
Luce-Mackinac-Alger-Schoolcraft	66	16.7	(9.7 – 27.2)
Western Upper Peninsula	116	27.2	(19.6 – 36.5)
Delta-Menominee	116	31.8	(23.5 – 41.5)
Chippewa	52	28.6	(16.8 – 44.3)
Dickinson-Iron	77	35.9	(24.9 – 48.6)
Marquette	100	33.2	(24.2 – 43.7)

^a Among all respondents, the proportion who reported that they were ever told by a doctor that they have high blood pressure (HBP). Women who had HBP only during pregnancy and adults who were borderline hypertensive were considered to not have been diagnosed.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

**Table 21: Cholesterol Screening and Awareness
2005 Michigan BRFs**

Geographic Area	Cholesterol Ever Checked ^a			Told High Cholesterol ^b		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	11,934	80.1	(79.1 – 81.1)	10,276	38.9	(37.8 – 40.0)
Region 1	4,746	82.1	(80.5 – 83.6)	4,143	38.4	(36.7 – 40.2)
Livingston	189	89.0	(81.6 – 93.6)	174	41.1	(33.2 – 49.4)
Macomb	760	83.1	(79.1 – 86.5)	670	40.6	(36.4 – 44.9)
Monroe	172	81.9	(73.2 – 88.2)	144	39.2	(30.1 – 49.0)
Oakland	1,337	85.2	(82.2 – 87.8)	1,203	40.5	(37.2 – 43.9)
St. Clair	201	72.8	(63.2 – 80.6)	163	35.7	(27.7 – 44.5)
Washtenaw	420	80.7	(74.7 – 85.5)	363	31.6	(26.5 – 37.3)
City of Detroit	611	80.4	(75.7 – 84.3)	518	37.5	(32.6 – 42.6)
Wayne exc. Detroit	1,035	80.3	(76.7 – 83.5)	893	37.0	(33.4 – 40.7)
Region 2	735	83.6	(79.6 – 86.9)	637	40.0	(35.7 – 44.4)
Genesee	520	83.1	(78.0 – 87.2)	451	40.5	(35.4 – 45.8)
Lapeer	109	80.8	(69.6 – 88.6)	94	43.8	(32.8 – 55.4)
Shiawassee	106	88.8	(81.0 – 93.7)	92	34.3	(23.9 – 46.5)
Region 3	350	79.4	(72.9 – 84.6)	301	37.4	(31.6 – 43.6)
Jackson	215	81.1	(72.7 – 87.4)	188	35.9	(28.8 – 43.7)
Lenawee	135	76.5	(65.4 – 84.9)	113	40.0	(30.4 – 50.5)
Region 4	790	79.4	(75.1 – 83.1)	674	41.2	(37.0 – 45.6)
Barry-Eaton	266	79.1	(71.5 – 85.1)	227	44.0	(36.6 – 51.7)
Mid-Michigan ^c	257	80.4	(72.8 – 86.2)	223	39.4	(32.7 – 46.5)
Ingham	364	76.7	(70.0 – 82.3)	304	42.1	(35.6 – 48.8)
Region 5	705	78.8	(74.4 – 82.7)	598	35.4	(31.1 – 39.9)
Branch-Hillsdale-St. Joseph	195	71.7	(62.0 – 79.8)	162	42.3	(34.1 – 51.0)
Calhoun	202	80.9	(73.2 – 86.8)	169	33.0	(25.7 – 41.2)
Kalamazoo	308	81.6	(74.8 – 86.8)	267	33.3	(27.1 – 40.3)
Region 6	402	71.1	(64.4 – 76.9)	331	37.0	(31.2 – 43.1)
Van Buren-Cass	166	71.4	(60.5 – 80.4)	138	39.7	(30.8 – 49.4)
Berrien	236	70.8	(62.2 – 78.1)	193	35.0	(27.8 – 43.0)
Region 7	1,335	78.2	(75.0 – 81.2)	1,142	37.0	(33.8 – 40.3)
Allegan	146	73.9	(63.1 – 82.4)	121	25.0	(17.8 – 33.9)
Ionia	83	74.2	(60.3 – 84.5)	68	42.4	(30.6 – 55.1)
Kent	662	81.7	(77.1 – 85.5)	575	38.3	(33.7 – 43.1)
Mid-Michigan ^c	257	80.4	(72.8 – 86.2)	223	39.4	(32.7 – 46.5)
Ottawa	347	76.2	(69.3 – 82.0)	298	35.0	(29.2 – 41.2)

*Preliminary 2005 Michigan BRFSS Regional & Local Health Department Estimates
June 1, 2006*

Table 21 Cont'd

Geographic Area	Cholesterol Ever Checked ^a			Told High Cholesterol ^b		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	11,934	80.1	(79.1 – 81.1)	10,276	38.9	(37.8 – 40.0)
Region 8	628	77.0	(72.2 – 81.2)	531	40.8	(36.1 – 45.6)
District #10	399	80.2	(74.4 – 85.0)	343	43.0	(37.1 – 49.1)
Muskegon	229	72.0	(63.3 – 79.3)	188	36.8	(29.4 – 44.9)
Region 9	702	81.3	(77.0 – 85.0)	604	44.7	(40.0 – 49.4)
District #2	129	81.6	(70.3 – 89.2)	108	56.3	(44.7 – 67.3)
District #4	170	84.0	(75.5 – 89.9)	146	45.3	(35.9 – 55.0)
Northwest Michigan	212	80.9	(72.1 – 87.4)	186	43.7	(35.6 – 52.1)
Benzie-Leelanau	78	79.5	(63.0 – 89.8)	69	45.5	(32.6 – 59.2)
Grand Traverse	113	79.6	(68.5 – 87.6)	95	31.2	(21.3 – 43.1)
Region 10	596	76.9	(71.7 – 81.4)	507	39.4	(33.6 – 43.5)
Bay	127	65.8	(53.3 – 76.4)	103	45.5	(34.9 – 56.5)
Huron	42	----- ^d		35	----- ^d	
Saginaw	276	82.7	(75.2 – 88.2)	241	40.3	(33.3 – 47.6)
Sanilac	75	82.9	(66.5 – 92.2)	66	25.3	(14.9 – 39.6)
Tuscola	76	69.4	(53.7 – 81.6)	62	41.0	(27.2 – 56.4)
Region 11	422	76.2	(70.1 – 81.4)	354	39.1	(33.5 – 45.0)
Central Michigan	288	75.5	(67.8 – 81.9)	239	46.2	(38.9 – 53.7)
Midland	134	77.5	(66.5 – 85.6)	115	26.5	(18.8 – 35.9)
Region 12	524	80.9	(75.5 – 85.3)	454	40.9	(35.9 – 46.1)
Luce-Mackinac-Alger-Schoolcraft	66	89.2	(76.9 – 95.4)	59	40.5	(27.5 – 55.0)
Western Upper Peninsula	116	73.0	(59.3 – 83.4)	98	40.0	(30.0 – 50.8)
Delta-Menominee	116	79.9	(67.2 – 88.6)	100	38.1	(28.2 – 49.0)
Chippewa	50	87.9	(67.5 – 96.2)	45	----- ^d	
Dickinson-Iron	76	85.7	(66.0 – 94.9)	71	42.5	(30.5 – 55.3)
Marquette	100	77.4	(66.2 – 85.7)	81	43.1	(32.0 – 55.0)

^a Among all respondents, the proportion who reported ever having had their blood cholesterol checked.

^b Among those who ever had their blood cholesterol checked, the proportion who reported that a doctor, nurse, or other health professional had told them that their cholesterol was high.

^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^d Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 22: Cholesterol Screening 2005 Michigan BRFS			
Geographic Area	Checked Within Past Five Years^a		
	n	%	95% Confidence Interval
Michigan Total	11,806	76.4	(75.4 – 77.4)
Region 1	4,690	78.7	(77.0 – 80.2)
Livingston	188	85.7	(78.2 – 91.0)
Macomb	748	79.6	(75.4 – 83.2)
Monroe	172	80.5	(71.8 – 87.0)
Oakland	1,325	81.4	(78.2 – 84.2)
St. Clair	199	70.7	(61.1 – 78.7)
Washtenaw	418	76.1	(70.1 – 81.2)
City of Detroit	603	77.2	(72.5 – 81.4)
Wayne exc. Detroit	1,016	76.9	(73.2 – 80.3)
Region 2	729	79.9	(75.8 – 83.5)
Genesee	515	79.3	(74.0 – 83.7)
Lapeer	109	76.5	(65.4 – 84.8)
Shiawassee	105	86.4	(77.6 – 92.1)
Region 3	348	75.2	(68.7 – 80.8)
Jackson	213	77.0	(68.6 – 83.7)
Lenawee	135	72.4	(61.4 – 81.2)
Region 4	781	74.5	(70.2 – 78.5)
Barry-Eaton	262	73.2	(65.5 – 79.8)
Mid-Michigan ^b	256	76.1	(68.4 – 82.3)
Ingham	360	72.7	(66.0 – 78.6)
Region 5	691	75.6	(71.0 – 79.6)
Branch-Hillsdale-St. Joseph	190	68.3	(58.7 – 76.6)
Calhoun	198	78.1	(70.2 – 84.4)
Kalamazoo	303	78.1	(71.1 – 83.8)
Region 6	400	69.2	(62.6 – 75.1)
Van Buren-Cass	166	68.7	(57.9 – 77.8)
Berrien	234	69.6	(61.0 – 77.0)

Table 22 Cont'd			
Geographic Area	Checked Within Past Five Years^a		
	n	%	95% Confidence Interval
Michigan Total	11,806	76.4	(75.4 – 77.4)
Region 7	1,323	75.0	(71.8 – 78.1)
Allegan	144	70.0	(59.4 – 78.9)
Ionia	81	68.6	(54.8 – 79.7)
Kent	656	79.2	(74.6 – 83.2)
Mid-Michigan ^b	256	76.1	(68.4 – 82.3)
Ottawa	345	72.4	(65.5 – 78.3)
Region 8	623	74.0	(69.2 – 78.4)
District #10	397	76.8	(70.9 – 81.8)
Muskegon	226	69.6	(60.9 – 77.1)
Region 9	698	76.6	(72.1 – 80.5)
District #2	128	78.6	(67.2 – 86.8)
District #4	169	79.8	(71.2 – 86.3)
Northwest Michigan	211	75.9	(67.2 – 82.9)
Benzie-Leelanau	78	75.2	(59.0 – 86.5)
Grand Traverse	112	72.0	(60.7 – 81.1)
Region 10	586	72.2	(66.9 – 76.9)
Bay	124	62.5	(50.3 – 73.3)
Huron	40	----- ^c	
Saginaw	274	76.3	(68.8 – 82.5)
Sanilac	74	79.5	(63.5 – 89.6)
Tuscola	74	67.6	(52.1 – 80.1)
Region 11	420	71.6	(65.5 – 77.0)
Central Michigan	286	70.8	(63.1 – 77.4)
Midland	134	73.2	(62.5 – 81.7)
Region 12	517	75.2	(69.8 – 79.9)
Luce-Mackinac-Alger-Schoolcraft	66	85.7	(73.5 – 92.9)
Western Upper Peninsula	115	63.2	(50.6 – 74.2)
Delta-Menominee	116	70.4	(58.4 – 80.2)
Chippewa	49	----- ^c	
Dickinson-Iron	73	82.0	(63.7 – 92.2)
Marquette	98	76.2	(64.8 – 84.8)

^a Among all respondents, the proportion who reported that they have had their blood cholesterol checked within the past five years.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 23: Arthritis 2005 Michigan BRFs					
Geographic Area		Chronic Joint Symptoms, Not Doctor Diagnosed^a		Doctor Diagnosed Arthritis^b	
	n	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	12,002	14.6	(13.8 – 15.3)	30.9	(30.0 – 31.9)
Region 1	4,767	14.8	(13.6 – 16.0)	29.9	(28.4 – 31.4)
Livingston	188	18.5	(12.8 – 25.8)	25.6	(19.8 – 32.5)
Macomb	775	13.5	(10.8 – 16.7)	34.0	(30.4 – 37.8)
Monroe	175	16.1	(11.0 – 23.1)	36.7	(29.0 – 45.2)
Oakland	1,336	15.4	(13.2 – 18.0)	27.5	(24.8 – 30.4)
St. Clair	202	20.7	(14.6 – 28.7)	36.8	(29.3 – 45.1)
Washtenaw	422	15.9	(12.1 – 20.6)	20.9	(17.1 – 25.3)
City of Detroit	615	12.4	(9.5 – 15.9)	32.6	(28.5 – 37.1)
Wayne exc. Detroit	1,036	14.2	(11.7 – 17.0)	29.8	(26.8 – 33.0)
Region 2	736	15.4	(12.4 – 18.9)	33.6	(29.9 – 37.5)
Genesee	519	16.1	(12.5 – 20.5)	33.4	(29.1 – 38.1)
Lapeer	109	11.3	(6.6 – 18.5)	40.6	(30.9 – 51.1)
Shiawassee	108	16.1	(9.0 – 26.9)	27.7	(19.0 – 38.5)
Region 3	352	15.1	(11.2 – 20.2)	29.8	(24.9 – 35.1)
Jackson	217	12.0	(7.8 – 18.1)	31.6	(25.4 – 38.5)
Lenawee	135	20.3	(13.2 – 29.9)	26.9	(19.7 – 35.4)
Region 4	799	15.5	(12.6 – 18.9)	32.5	(29.0 – 36.2)
Barry-Eaton	264	16.5	(11.4 – 23.3)	31.4	(25.6 – 37.9)
Mid-Michigan ^c	261	12.2	(8.4 – 17.3)	40.1	(33.7 – 47.0)
Ingham	370	15.7	(11.6 – 20.9)	28.6	(23.9 – 33.9)
Region 5	705	15.0	(11.9 – 18.7)	30.5	(11.9 – 18.7)
Branch-Hillsdale-St. Joseph	194	12.0	(7.6 – 18.6)	35.8	(28.7 – 43.6)
Calhoun	202	13.9	(8.6 – 21.6)	26.5	(20.7 – 33.3)
Kalamazoo	309	17.5	(12.7 – 23.6)	30.1	(24.8 – 36.0)
Region 6	404	15.9	(12.2 – 20.6)	21.9	(15.1 – 26.3)
Van Buren-Cass	166	15.6	(10.4 – 22.7)	23.1	(17.2 – 30.3)
Berrien	238	16.2	(11.2 – 22.7)	21.0	(16.3 – 26.8)
Region 7	1,357	12.9	(10.9 – 15.1)	29.5	(26.9 – 32.2)
Allegan	147	14.8	(8.5 – 24.6)	28.9	(21.7 – 37.5)
Ionia	88	16.9	(9.9 – 27.4)	25.1	(17.0 – 35.4)
Kent	674	13.4	(10.7 – 16.8)	29.4	(25.7 – 33.4)
Mid-Michigan ^c	261	12.2	(8.4 – 17.3)	40.1	(33.7 – 47.0)
Ottawa	352	10.5	(7.5 – 14.5)	29.9	(24.9 – 35.4)

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Table 23 Cont'd					
Geographic Area		Chronic Joint Symptoms, Not Doctor Diagnosed^a		Doctor Diagnosed Arthritis^b	
	n	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	12,002	14.6	(13.8 – 15.3)	30.9	(30.0 – 31.9)
Region 8	637	16.1	(12.9 – 19.9)	32.4	(28.5 – 36.6)
District #10	405	17.6	(13.7 – 22.4)	32.3	(27.4 – 37.6)
Muskegon	232	13.6	(8.8 – 20.6)	32.7	(26.3 – 39.8)
Region 9	706	14.4	(11.5 – 18.0)	34.8	(30.9 – 38.9)
District #2	131	16.4	(9.8 – 26.0)	40.0	(30.6 – 50.1)
District #4	172	13.5	(8.2 – 21.4)	33.9	(26.2 – 42.6)
Northwest Michigan	212	10.3	(6.1 – 16.7)	39.9	(32.7 – 47.6)
Benzie-Leelanau	78	21.5	(11.9 – 35.7)	21.9	(14.1 – 32.3)
Grand Traverse	113	16.5	(10.2 – 25.6)	29.7	(21.0 – 40.2)
Region 10	595	10.3	(7.9 – 13.3)	35.4	(31.0 – 40.0)
Bay	124	15.1	(9.2 – 23.7)	28.2	(20.1 – 38.0)
Huron	44	----- ^d		----- ^d	
Saginaw	276	9.8	(6.7 – 14.2)	37.5	(30.9 – 44.5)
Sanilac	74	11.3	(4.7 – 24.5)	39.3	(27.1 – 53.1)
Tuscola	77	6.0	(2.8 – 12.2)	37.1	(25.5 – 50.5)
Region 11	423	15.5	(11.9 – 20.0)	29.9	(25.3 – 35.0)
Central Michigan	287	13.8	(9.7 – 19.3)	36.0	(29.8 – 42.7)
Midland	136	18.6	(12.2 – 27.3)	18.5	(12.8 – 26.0)
Region 12	521	15.1	(11.9 – 19.0)	36.6	(32.1 – 41.4)
Luce-Mackinac-Alger-Schoolcraft	64	7.7	(3.1 – 18.2)	37.8	(25.5 – 51.9)
Western Upper Peninsula	115	16.1	(10.1 – 24.6)	40.2	(30.5 – 50.8)
Delta-Menominee	115	12.0	(7.0 – 19.7)	38.2	(28.4 – 49.0)
Chippewa	51	23.4	(10.8 – 43.5)	25.6	(14.9 – 40.3)
Dickinson-Iron	76	12.0	(6.1 – 22.3)	41.9	(29.9 – 54.8)
Marquette	100	20.8	(13.1 – 31.3)	32.2	(23.5 – 42.2)
^a The proportion who reported having had any symptoms of pain, aching, or stiffness in or around the joint (excluding the back or neck) during the past 30 days that first started more than three months ago and who have not been diagnosed with arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia by a health care professional. ^b The proportion who reported ever being told by a health care professional that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia. ^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate. ^d Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.					

Table 24: Disability 2005 Michigan BRFS			
Geographic Area	Disability^a		
	n	%	95% Confidence Interval
Michigan Total	12,037	21.5	(20.7 – 22.4)
Region 1	4,779	20.6	(19.3 – 22.0)
Livingston	189	19.0	(13.8 – 25.5)
Macomb	776	20.2	(17.1 – 23.5)
Monroe	172	24.0	(17.6 – 31.8)
Oakland	1,346	20.1	(17.6 – 22.8)
St. Clair	202	22.7	(16.8 – 29.9)
Washtenaw	424	16.8	(13.1 – 21.2)
City of Detroit	616	24.7	(21.0 – 28.8)
Wayne exc. Detroit	1,037	19.5	(16.9 – 22.4)
Region 2	738	23.8	(20.4 – 27.6)
Genesee	524	24.6	(20.6 – 29.1)
Lapeer	108	20.8	(13.7 – 30.2)
Shiawassee	106	23.0	(14.4 – 34.7)
Region 3	353	19.1	(15.0 – 24.0)
Jackson	218	21.0	(15.9 – 27.3)
Lenawee	135	16.0	(10.0 – 24.7)
Region 4	805	22.3	(19.3 – 25.8)
Barry-Eaton	267	22.2	(17.0 – 28.5)
Mid-Michigan ^b	262	22.4	(17.2 – 28.7)
Ingham	373	21.0	(16.8 – 25.9)
Region 5	702	22.9	(19.6 – 26.6)
Branch-Hillsdale-St. Joseph	193	25.8	(19.3 – 33.7)
Calhoun	201	23.5	(17.7 – 30.6)
Kalamazoo	308	20.8	(16.1 – 26.5)
Region 6	405	18.1	(14.4 – 22.5)
Van Buren-Cass	166	18.6	(12.9 – 25.9)
Berrien	239	17.8	(13.2 – 23.6)

Table 24 Cont'd			
Geographic Area	Disability^a		
	n	%	95% Confidence Interval
Michigan Total	12,037	21.5	(20.7 – 22.4)
Region 7	1,359	19.3	(17.1 – 21.7)
Allegan	146	23.7	(16.4 – 32.8)
Ionia	88	24.4	(16.3 – 35.0)
Kent	675	18.8	(15.8 – 22.2)
Mid-Michigan ^b	262	22.4	(17.2 – 28.7)
Ottawa	353	17.9	(14.0 – 22.5)
Region 8	641	26.2	(22.5 – 30.4)
District #10	409	26.4	(21.7 – 31.2)
Muskegon	232	26.0	(20.1 – 32.9)
Region 9	708	24.0	(20.6 – 27.8)
District #2	131	30.0	(21.3 – 40.4)
District #4	174	20.9	(14.9 – 28.4)
Northwest Michigan	211	26.1	(19.8 – 33.5)
Benzie-Leelanau	78	19.2	(11.4 – 30.5)
Grand Traverse	114	21.1	(14.3 – 30.0)
Region 10	599	21.9	(18.3 – 26.0)
Bay	126	22.9	(15.5 – 32.5)
Huron	44	----- ^c	
Saginaw	276	21.2	(16.3 – 27.1)
Sanilac	75	32.3	(19.9 – 47.9)
Tuscola	78	18.3	(11.3 – 28.2)
Region 11	427	24.8	(20.4 – 29.8)
Central Michigan	290	29.4	(23.5 – 36.1)
Midland	137	16.3	(11.1 – 23.4)
Region 12	521	22.4	(18.7 – 26.7)
Luce-Mackinac-Alger-Schoolcraft	65	17.2	(9.3 – 29.5)
Western Upper Peninsula	114	24.0	(16.2 – 33.9)
Delta-Menominee	113	21.4	(14.5 – 30.4)
Chippewa	51	20.4	(9.1 – 39.5)
Dickinson-Iron	78	33.6	(23.2 – 45.9)
Marquette	100	18.4	(11.8 – 27.6)

^a The proportion who reported being limited in any activities because of physical, mental, or emotional problems, or reported that they required use of special equipment (such as a cane, a wheelchair, a special bed, or a special telephone) due to a health problem.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 25: Activity Limitation 2005 Michigan BRFS			
Geographic Area	Activity Limitation^a		
	n	%	95% Confidence Interval
Michigan Total	12,038	19.9	(19.1 – 20.7)
Region 1	4,781	19.1	(17.8 – 20.4)
Livingston	189	17.3	(12.4 – 23.7)
Macomb	776	18.9	(15.9 – 22.2)
Monroe	172	22.8	(16.6 – 30.6)
Oakland	1,346	18.9	(16.5 – 21.5)
St. Clair	202	20.4	(14.8 – 27.3)
Washtenaw	424	15.5	(11.9 – 19.8)
City of Detroit	618	22.0	(18.4 – 26.0)
Wayne exc. Detroit	1,036	18.3	(15.8 – 21.1)
Region 2	738	22.7	(19.4 – 26.4)
Genesee	524	23.9	(20.0 – 28.4)
Lapeer	108	18.5	(11.9 – 27.7)
Shiawassee	106	20.8	(12.6 – 32.2)
Region 3	353	16.5	(12.7 – 21.1)
Jackson	218	18.8	(13.9 – 24.8)
Lenawee	135	12.7	(7.3 – 21.0)
Region 4	806	20.5	(17.6 – 23.9)
Barry-Eaton	267	21.2	(16.1 – 27.5)
Mid-Michigan ^b	263	20.9	(15.9 – 27.1)
Ingham	373	18.7	(14.8 – 23.3)
Region 5	702	20.3	(17.2 – 23.9)
Branch-Hillsdale-St. Joseph	193	23.7	(17.5 – 31.3)
Calhoun	201	22.5	(16.7 – 29.5)
Kalamazoo	308	17.0	(12.8 – 22.2)
Region 6	405	16.4	(12.9 – 20.8)
Van Buren-Cass	166	15.8	(10.6 – 22.9)
Berrien	239	16.9	(12.4 – 22.6)

Table 25 Cont'd			
Geographic Area	Activity Limitation^a		
	n	%	95% Confidence Interval
Michigan Total	12,038	19.9	(19.1 – 20.7)
Region 7	1,359	17.9	(15.8 – 20.2)
Allegan	146	23.7	(16.4 – 32.8)
Ionia	88	23.3	(15.3 – 33.8)
Kent	675	17.2	(14.3 – 20.5)
Mid-Michigan ^b	263	20.9	(15.9 – 27.1)
Ottawa	353	16.2	(12.5 – 20.7)
Region 8	640	24.6	(20.9 – 28.7)
District #10	408	25.1	(20.5 – 30.4)
Muskegon	232	23.7	(18.0 – 30.5)
Region 9	709	22.4	(19.1 – 26.1)
District #2	131	26.9	(18.7 – 37.2)
District #4	174	20.5	(14.6 – 28.1)
Northwest Michigan	212	24.4	(18.4 – 31.7)
Benzie-Leelanau	78	17.4	(10.0 – 28.5)
Grand Traverse	114	19.5	(13.0 – 28.2)
Region 10	598	19.5	(16.1 – 23.5)
Bay	125	21.4	(14.2 – 30.9)
Huron	44	----- ^c	
Saginaw	276	18.4	(13.8 – 24.1)
Sanilac	75	30.7	(18.4 – 46.5)
Tuscola	78	15.3	(9.1 – 24.7)
Region 11	427	23.4	(19.1 – 28.4)
Central Michigan	290	28.2	(22.4 – 34.8)
Midland	137	14.7	(9.7 – 21.6)
Region 12	520	20.8	(17.2 – 24.9)
Luce-Mackinac-Alger-Schoolcraft	65	17.2	(9.3 – 29.5)
Western Upper Peninsula	114	20.5	(13.8 – 29.4)
Delta-Menominee	114	20.2	(13.5 – 29.1)
Chippewa	50	18.4	(7.5 – 38.4)
Dickinson-Iron	77	31.1	(21.0 – 43.4)
Marquette	100	18.4	(11.8 – 27.6)

^a The proportion who reported being limited in any activities because of physical, mental, or emotional problems.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 26: Used Special Equipment 2005 Michigan BRFS			
Geographic Area	Used Special Equipment^a		
	n	%	95% Confidence Interval
Michigan Total	12,074	6.9	(6.4 – 7.4)
Region 1	4,796	7.1	(6.3 – 7.9)
Livingston	190	5.8	(3.2 – 10.2)
Macomb	778	6.4	(4.9 – 8.5)
Monroe	175	5.9	(3.5 – 9.8)
Oakland	1,348	6.3	(5.0 – 8.1)
St. Clair	202	5.1	(2.8 – 8.9)
Washtenaw	425	5.1	(3.5 – 7.4)
City of Detroit	619	11.8	(9.4 – 14.9)
Wayne exc. Detroit	1,041	6.3	(4.9 – 8.0)
Region 2	741	6.1	(4.6 – 8.2)
Genesee	525	6.5	(4.6 – 9.0)
Lapeer	109	6.6	(3.1 – 13.4)
Shiawassee	107	3.9	(1.3 – 11.0)
Region 3	356	6.7	(4.6 – 9.8)
Jackson	220	6.8	(4.3 – 10.8)
Lenawee	136	6.6	(3.4 – 12.1)
Region 4	807	6.3	(4.7 – 8.4)
Barry-Eaton	268	6.4	(3.9 – 10.1)
Mid-Michigan ^b	262	5.3	(3.3 – 8.6)
Ingham	374	6.7	(4.3 – 10.3)
Region 5	708	7.1	(5.3 – 9.4)
Branch-Hillsdale-St. Joseph	195	7.5	(4.4 – 12.6)
Calhoun	202	5.4	(3.0 – 9.4)
Kalamazoo	311	8.0	(5.2 – 12.0)
Region 6	405	6.3	(4.5 – 8.7)
Van Buren-Cass	166	7.9	(4.8 – 12.7)
Berrien	239	5.2	(3.3 – 8.1)

Table 26 Cont'd			
Geographic Area	Used Special Equipment^a		
	n	%	95% Confidence Interval
Michigan Total	12,074	6.9	(6.4 – 7.4)
Region 7	1,360	5.9	(4.8 – 7.3)
Allegan	147	5.6	(2.5 – 12.1)
Ionia	88	8.2	(4.0 – 16.0)
Kent	675	6.0	(4.5 – 8.1)
Mid-Michigan ^b	262	5.3	(3.3 – 8.6)
Ottawa	353	5.3	(3.5 – 8.0)
Region 8	643	7.4	(5.4 – 10.1)
District #10	410	7.8	(5.2 – 11.6)
Muskegon	233	6.8	(4.1 – 10.9)
Region 9	708	7.8	(6.0 – 10.1)
District #2	131	10.9	(6.3 – 18.2)
District #4	174	5.9	(3.1 – 10.7)
Northwest Michigan	211	8.4	(5.3 – 13.0)
Benzie-Leelanau	78	6.0	(2.6 – 13.3)
Grand Traverse	114	7.4	(4.0 – 13.2)
Region 10	600	8.4	(6.2 – 11.3)
Bay	126	5.6	(2.8 – 10.9)
Huron	44	----- ^c	
Saginaw	277	10.1	(6.6 – 15.3)
Sanilac	75	8.6	(4.1 – 17.0)
Tuscola	78	8.9	(4.4 – 17.3)
Region 11	428	6.8	(4.5 – 10.2)
Central Michigan	291	7.6	(4.5 – 12.4)
Midland	137	5.5	(2.9 – 10.1)
Region 12	522	6.7	(4.7 – 9.4)
Luce-Mackinac-Alger-Schoolcraft	65	2.0	(0.6 – 6.3)
Western Upper Peninsula	115	10.3	(5.2 – 19.4)
Delta-Menominee	113	7.6	(3.8 – 14.5)
Chippewa	51	2.9	(0.9 – 9.3)
Dickinson-Iron	78	10.3	(5.4 – 18.9)
Marquette	100	4.1	(1.4 – 11.1)

^a The proportion who reported that they required use of special equipment (such as a cane, a wheelchair, a special bed, or a special telephone) due to a health problem.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

**Table 27: Immunizations Among Adults Aged 65 Years or Older
2005 Michigan BRFs**

Geographic Area	Had Flu Vaccine in Past Year ^a			Ever Had Pneumonia Vaccine ^b		
	n	%	95% Confidence Interval	n	%	95% Confidence Interval
Michigan Total	3,080	67.3	(65.4 – 69.1)	3,002	66.2	(64.3 – 68.0)
Region 1	1,174	63.0	(59.9 – 66.0)	1,138	64.2	(61.1 – 67.3)
Region 2	180	59.3	(51.2 – 66.8)	176	65.2	(57.1 – 72.5)
Region 3	96	78.1	(67.6 – 85.9)	92	74.3	(63.7 – 82.6)
Region 4	199	75.0	(67.8 – 81.1)	190	70.1	(62.5 – 76.7)
Region 5	204	69.1	(61.7 – 75.7)	201	68.5	(60.9 – 75.3)
Region 6	89	62.6	(51.3 – 72.7)	88	61.5	(50.1 – 71.8)
Region 7	330	73.2	(67.9 – 77.9)	326	69.6	(64.1 – 74.6)
Region 8	174	74.5	(66.5 – 81.2)	169	65.7	(57.4 – 73.1)
Region 9	215	68.6	(61.5 – 74.9)	209	65.5	(58.1 – 72.1)
Region 10	151	65.5	(56.7 – 73.3)	150	65.3	(56.6 – 73.0)
Region 11	111	75.0	(65.3 – 82.7)	108	65.7	(55.6 – 74.5)
Region 12	157	68.3	(59.9 – 75.7)	155	68.0	(59.6 – 75.3)

Note: Sample sizes were too small (< 50) to compute prevalence estimates by local health departments.

^a Among those aged 65 years and older, the proportion who reported that they had a flu vaccine, either by an injection in the arm or sprayed in the nose during the past 12 months.

^b Among those aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine.

Table 28: HIV Testing Among Adults Aged 18-64 Years 2005 Michigan BRFS			
Geographic Area	Ever Had an HIV Test^a		
	n	%	95% Confidence Interval
Michigan Total	8,792	39.5	(38.3 – 40.7)
Region 1	3,527	42.9	(40.9 – 44.9)
Livingston	147	44.5	(35.7 – 53.7)
Macomb	542	33.6	(29.1 – 38.4)
Monroe	135	34.7	(25.7 – 44.9)
Oakland	1,010	41.3	(37.6 – 45.1)
St. Clair	153	37.9	(29.5 – 47.2)
Washtenaw	326	39.7	(33.6 – 46.1)
City of Detroit	444	63.2	(57.8 – 68.4)
Wayne exc. Detroit	758	39.8	(35.7 – 43.9)
Region 2	550	40.2	(35.4 – 45.3)
Genesee	385	41.5	(35.7 – 47.5)
Lapeer	85	34.4	(24.0 – 46.6)
Shiawassee	80	40.1	(27.4 – 54.3)
Region 3	255	36.6	(30.1 – 43.7)
Jackson	165	36.7	(28.8 – 45.4)
Lenawee	90	36.5	(25.5 – 49.0)
Region 4	600	37.3	(32.8 – 42.0)
Barry-Eaton	192	33.8	(26.2 – 42.2)
Mid-Michigan ^b	199	30.8	(23.9 – 38.6)
Ingham	281	42.2	(35.4 – 49.3)
Region 5	489	39.2	(34.1 – 44.5)
Branch-Hillsdale-St. Joseph	139	30.4	(22.3 – 39.9)
Calhoun	127	39.8	(30.0 – 50.5)
Kalamazoo	223	43.8	(36.1 – 51.8)
Region 6	306	32.3	(26.3 – 38.9)
Van Buren-Cass	123	24.5	(16.7 – 34.6)
Berrien	183	37.4	(29.3 – 46.3)

Table 28 Cont'd			
Geographic Area	Ever Had an HIV Test^a		
	n	%	95% Confidence Interval
Michigan Total	8,792	39.5	(38.3 – 40.7)
Region 7	1,017	36.7	(33.2 – 40.4)
Allegan	102	38.6	(28.1 – 50.2)
Ionia	58	33.8	(21.6 – 48.6)
Kent	516	39.9	(34.8 – 45.1)
Mid-Michigan ^b	199	30.8	(23.9 – 38.6)
Ottawa	269	32.2	(26.0 – 39.2)
Region 8	453	38.3	(33.2 – 43.7)
District #10	285	34.2	(28.1 – 40.9)
Muskegon	168	44.3	(35.6 – 53.3)
Region 9	485	39.2	(34.1 – 44.6)
District #2	88	28.9	(18.0 – 43.0)
District #4	117	39.1	(29.0 – 50.2)
Northwest Michigan	144	45.2	(35.8 – 55.0)
Benzie-Leelanau	54	34.3	(21.5 – 50.0)
Grand Traverse	82	42.8	(31.0 – 55.5)
Region 10	438	34.3	(29.1 – 39.8)
Bay	93	33.0	(22.4 – 45.6)
Huron	30	----- ^c	
Saginaw	198	35.6	(28.0 – 43.9)
Sanilac	56	33.3	(20.1 – 49.8)
Tuscola	61	35.6	(22.7 – 51.0)
Region 11	314	31.2	(25.5 – 37.4)
Central Michigan	199	34.0	(26.5 – 42.4)
Midland	115	26.5	(18.9 – 35.9)
Region 12	358	39.5	(33.7 – 45.7)
Luce-Mackinac-Alger-Schoolcraft	50	52.1	(36.7 – 67.2)
Western Upper Peninsula	86	30.1	(20.2 – 42.3)
Delta-Menominee	80	39.8	(27.7 – 53.3)
Chippewa	34	----- ^c	
Dickinson-Iron	43	----- ^c	
Marquette	65	39.8	(27.6 – 53.6)

Note: "Don't know" was considered a valid response.
^a Among those aged 18 - 64 years, the proportion who reported that they ever had been tested for HIV, apart from tests that were part of a blood donation.
^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.
^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 29: Engaged in At-Risk Behaviors for Acquiring HIV Among Adults Aged 18-64 Years 2005 Michigan BRFS			
Geographic Area	Engaged in At-Risk Behaviors for Acquiring HIV^a		
	n	%	95% Confidence Interval
Michigan Total	8,771	4.3	(3.7 – 4.9)
Region 1	3,517	4.4	(3.5 – 5.4)
Livingston	147	3.0	(1.0 – 8.9)
Macomb	540	4.4	(2.7 – 7.1)
Monroe	134	4.1	(1.3 – 12.0)
Oakland	1,008	4.4	(2.9 – 6.7)
St. Clair	153	4.2	(1.2 – 13.5)
Washtenaw	325	1.8	(0.8 – 3.9)
City of Detroit	440	5.3	(3.3 – 8.4)
Wayne exc. Detroit	758	5.0	(3.2 – 7.6)
Region 2	549	5.8	(3.6 – 9.4)
Genesee	384	6.4	(3.6 – 11.2)
Lapeer	85	3.4	(0.8 – 13.7)
Shiawassee	80	5.6	(1.9 – 15.3)
Region 3	255	4.4	(2.1 – 9.0)
Jackson	166	1.8	(0.6 – 5.0)
Lenawee	89	9.0	(3.5 – 21.0)
Region 4	597	4.2	(2.3 – 7.6)
Barry-Eaton	193	4.9	(1.7 – 13.0)
Mid-Michigan ^b	197	2.9	(1.0 – 8.2)
Ingham	279	5.2	(2.4 – 10.9)
Region 5	490	4.8	(2.8 – 8.3)
Branch-Hillsdale-St. Joseph	139	3.2	(0.9 – 11.2)
Calhoun	128	6.0	(2.3 – 14.8)
Kalamazoo	223	5.1	(2.3 – 11.1)
Region 6	306	3.4	(1.4 – 8.0)
Van Buren-Cass	123	0*	
Berrien	183	5.6	(2.3 – 12.9)
Region 7	1,016	4.1	(2.6 – 6.3)
Allegan	102	1.8	(0.6 – 5.8)
Ionia	58	5.4	(1.8 – 14.9)
Kent	515	6.0	(3.5 – 10.1)
Mid-Michigan ^b	197	2.9	(1.0 – 8.2)
Ottawa	269	0.3	(0.04 – 1.9)

Table 29 Cont'd			
Geographic Area	Engaged in At-Risk Behaviors for Acquiring HIV^a		
	n	%	95% Confidence Interval
Michigan Total	8,771	4.3	(3.7 – 4.9)
Region 8	452	5.2	(3.0 – 8.7)
District #10	285	5.9	(3.0 – 11.1)
Muskegon	167	4.1	(1.7 – 9.5)
Region 9	481	4.2	(2.1 – 8.3)
District #2	87	5.6	(1.0 – 25.7)
District #4	115	4.6	(1.3 – 14.8)
Northwest Michigan	143	7.1	(2.7 – 17.0)
Benzie-Leelanau	54	0*	
Grand Traverse	82	0*	
Region 10	438	3.0	(1.3 – 6.5)
Bay	93	0*	
Huron	30	----- ^c	
Saginaw	198	3.9	(1.4 – 10.6)
Sanilac	56	5.8	(0.8 – 30.9)
Tuscola	61	0.6	(0.1 – 4.4)
Region 11	313	4.0	(2.0 – 7.8)
Central Michigan	198	3.7	(1.4 – 9.1)
Midland	115	4.6	(1.7 – 11.9)
Region 12	357	2.5	(0.9 – 6.9)
Luce-Mackinac-Alger-Schoolcraft	50	0*	
Western Upper Peninsula	86	0.6	(0.1 – 4.3)
Delta-Menominee	80	2.1	(0.3 – 13.1)
Chippewa	34	----- ^c	
Dickinson-Iron	43	----- ^c	
Marquette	64	4.4	(1.1 – 16.5)
<p>* Zero respondents in this local health department reported that they had engaged in at least one at-risk behavior for acquiring HIV.</p> <p>^a Among those aged 18 - 64 years, the proportion who reported that they had done at least one of the following in the past year:</p> <ul style="list-style-type: none"> - Used intravenous drugs. - Been treated for a sexually transmitted or venereal disease. - Given or received money or drugs in exchange for sex. - Had anal sex without a condom. <p>^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.</p> <p>^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.</p>			

Table 30: Social and Emotional Support 2005 Michigan BRFs			
Geographic Area	Rarely or Never Receive the Social and Emotional Support that is Needed^a		
	n	%	95% Confidence Interval
Michigan Total	11,718	7.3	(6.7 – 7.9)
Region 1	4,640	7.4	(6.6 – 8.4)
Livingston	189	3.4	(1.6 – 6.9)
Macomb	754	6.9	(5.1 – 9.4)
Monroe	169	4.9	(2.6 – 9.1)
Oakland	1,316	5.6	(4.2 – 7.4)
St. Clair	189	11.8	(7.3 – 18.4)
Washtenaw	412	6.7	(4.2 – 10.6)
City of Detroit	586	12.0	(9.2 – 15.5)
Wayne exc. Detroit	1,006	7.3	(5.6 – 9.5)
Region 2	718	7.3	(5.5 – 9.7)
Genesee	514	7.7	(5.5 – 10.7)
Lapeer	106	7.5	(3.4 – 15.4)
Shiawassee	98	5.5	(2.5 – 11.7)
Region 3	348	4.8	(2.6 – 8.4)
Jackson	216	5.2	(2.5 – 10.7)
Lenawee	132	4.0	(1.6 – 9.6)
Region 4	790	7.5	(5.4 – 10.2)
Barry-Eaton	264	6.4	(3.9 – 10.5)
Mid-Michigan ^b	258	6.5	(3.6 – 11.5)
Ingham	363	8.6	(5.4 – 13.5)
Region 5	692	6.3	(4.7 – 8.3)
Branch-Hillsdale-St. Joseph	193	7.7	(4.3 – 13.2)
Calhoun	193	5.9	(3.5 – 10.0)
Kalamazoo	306	5.6	(3.7 – 8.6)
Region 6	394	11.9	(7.9 – 17.5)
Van Buren-Cass	160	10.4	(5.4 – 19.3)
Berrien	234	12.8	(7.6 – 20.9)
Region 7	1,331	5.9	(4.5 – 7.8)
Allegan	144	3.1	(1.4 – 6.7)
Ionia	85	4.5	(1.9 – 10.5)
Kent	661	5.7	(3.8 – 8.5)
Mid-Michigan ^b	258	6.5	(3.6 – 11.5)
Ottawa	346	7.7	(4.6 – 12.5)

Table 30 Cont'd			
Geographic Area	Rarely or Never Receive the Social and Emotional Support that is Needed^a		
	n	%	95% Confidence Interval
Michigan Total	11,718	7.3	(6.7 – 7.9)
Region 8	611	7.6	(5.6 – 10.4)
District #10	388	7.2	(4.6 – 12.5)
Muskegon	223	8.4	(4.9 – 13.9)
Region 9	689	6.3	(4.6 – 8.7)
District #2	130	6.5	(3.3 – 12.6)
District #4	164	8.3	(4.5 – 14.9)
Northwest Michigan	206	5.3	(2.7 – 10.0)
Benzie-Leelanau	76	5.1	(2.0 – 12.4)
Grand Traverse	113	6.3	(2.8 – 13.4)
Region 10	578	10.0	(7.3 – 13.6)
Bay	122	11.2	(5.3 – 22.2)
Huron	41	----- ^c	
Saginaw	268	9.3	(5.7 – 14.7)
Sanilac	72	7.2	(2.3 – 20.1)
Tuscola	75	14.5	(7.6 – 25.8)
Region 11	418	7.1	(4.7 – 10.5)
Central Michigan	281	7.3	(4.4 – 11.8)
Midland	137	6.7	(3.2 – 13.3)
Region 12	509	5.4	(3.6 – 8.0)
Luce-Mackinac-Alger-Schoolcraft	61	10.8	(4.1 – 25.6)
Western Upper Peninsula	113	4.9	(2.2 – 10.4)
Delta-Menominee	113	6.3	(2.9 – 13.0)
Chippewa	50	1.5	(0.4 – 6.3)
Dickinson-Iron	75	2.7	(0.8 – 8.2)
Marquette	97	5.4	(2.1 – 12.8)

^a The proportion who reported either "Rarely" or "Never" to the following question: "How often do you get the social and emotional support you need?"

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate.

^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 31: Life Satisfaction 2005 Michigan BRFs			
Geographic Area	Dissatisfied or Very Dissatisfied^a		
	n	%	95% Confidence Interval
Michigan Total	11,841	6.3	(5.8 – 6.9)
Region 1	4,692	7.7	(6.8 – 8.7)
Livingston	188	4.2	(2.0 – 8.3)
Macomb	761	6.0	(4.2 – 8.5)
Monroe	173	8.4	(4.6 – 14.8)
Oakland	1,321	5.9	(4.4 – 7.7)
St. Clair	195	11.9	(7.3 – 18.8)
Washtenaw	417	4.6	(2.8 – 7.5)
City of Detroit	598	13.6	(10.6 – 17.4)
Wayne exc. Detroit	1,020	7.7	(5.9 – 9.9)
Region 2	726	5.7	(4.0 – 7.9)
Genesee	515	6.4	(4.3 – 9.2)
Lapeer	108	5.8	(2.1 – 15.1)
Shiawassee	103	2.3	(0.8 – 6.5)
Region 3	351	4.8	(2.9 – 7.8)
Jackson	218	6.9	(4.0 – 11.7)
Lenawee	133	1.2	(0.4 – 3.9)
Region 4	792	5.0	(3.5 – 7.1)
Barry-Eaton	265	4.9	(2.6 – 9.1)
Mid-Michigan ^b	259	5.1	(2.6 – 9.8)
Ingham	363	4.7	(2.8 – 7.7)
Region 5	696	6.0	(4.1 – 8.6)
Branch-Hillsdale-St. Joseph	194	6.7	(3.0 – 14.4)
Calhoun	195	6.1	(3.3 – 10.9)
Kalamazoo	307	5.5	(3.2 – 9.3)
Region 6	398	6.1	(3.5 – 10.3)
Van Buren-Cass	163	2.6	(1.2 – 5.8)
Berrien	235	8.4	(4.5 – 15.2)
Region 7	1,336	4.7	(3.4 – 6.4)
Allegan	146	3.5	(1.6 – 7.7)
Ionia	85	8.6	(3.6 – 19.2)
Kent	662	5.3	(3.4 – 8.1)
Mid-Michigan ^b	259	5.1	(2.6 – 9.8)
Ottawa	348	3.4	(1.6 – 6.9)

Table 31 Cont'd			
Geographic Area	Dissatisfied or Very Dissatisfied^a		
	n	%	95% Confidence Interval
Michigan Total	11,841	6.3	(5.8 – 6.9)
Region 8	623	5.8	(4.1 – 8.2)
District #10	394	3.9	(2.3 – 6.5)
Muskegon	229	8.8	(5.6 – 13.7)
Region 9	699	4.5	(3.1 – 6.5)
District #2	131	9.4	(5.2 – 16.6)
District #4	171	3.2	(1.4 – 7.4)
Northwest Michigan	210	4.0	(1.9 – 8.2)
Benzie-Leelanau	75	1.2	(0.2 – 8.3)
Grand Traverse	112	3.9	(1.3 – 11.1)
Region 10	589	6.4	(4.2 – 9.5)
Bay	123	10.8	(5.0 – 21.9)
Huron	44	----- ^c	
Saginaw	272	5.4	(3.0 – 9.5)
Sanilac	73	1.7	(0.4 – 6.6)
Tuscola	77	9.7	(3.9 – 22.2)
Region 11	424	5.3	(3.2 – 8.7)
Central Michigan	287	5.6	(2.9 – 10.5)
Midland	137	4.8	(2.3 – 9.7)
Region 12	515	4.9	(3.0 – 7.8)
Luce-Mackinac-Alger-Schoolcraft	62	6.2	(1.8 – 19.8)
Western Upper Peninsula	112	4.4	(1.9 – 9.8)
Delta-Menominee	114	2.4	(0.9 – 6.7)
Chippewa	51	7.2	(1.2 – 32.7)
Dickinson-Iron	78	6.9	(2.5 – 17.8)
Marquette	98	4.7	(1.9 – 11.1)
^a The proportion who reported either "Dissatisfied" or "Very Dissatisfied" to the following question: "In general, how satisfied are you with your life?" ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the Regional estimate. ^c Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.			